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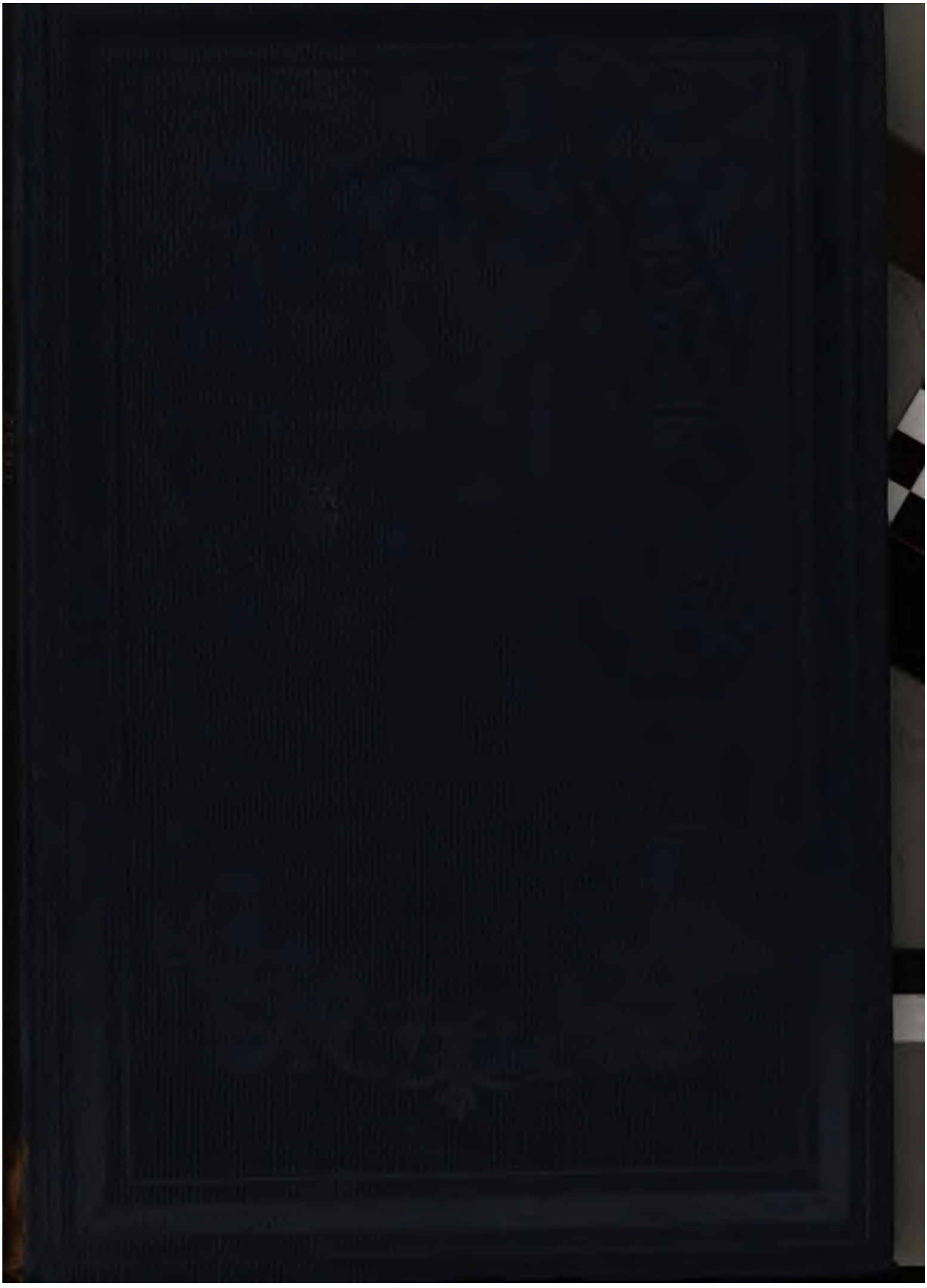

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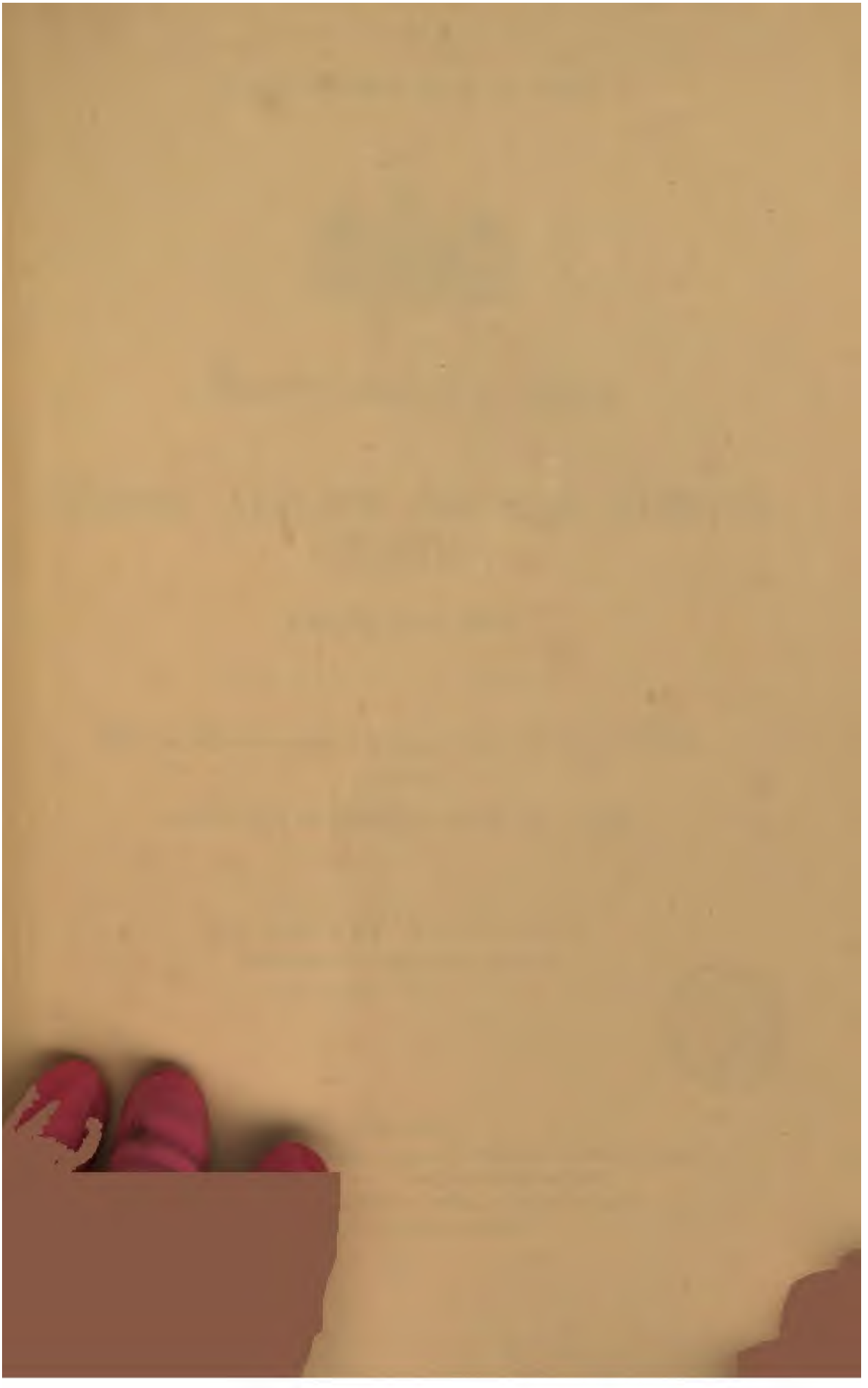

15 & 16 VICTORIÆ, Cap. 83. Sec. XXXII.

CHRONOLOGICAL INDEX

OF

PATENTS APPLIED FOR AND PATENTS GRANTED,

For the Year 1857.

Printed and Published by Order of the Honourable the Commissioners of Patents,

UNDER THE

ACT of 15 & 16 VICTORIÆ, Cap. 83. Sec. XXXII.

BY BENNET WOODCROFT,

SUPERINTENDENT OF SPECIFICATIONS, INDEXES, &c.

LONDON:

PRINTED BY GEORGE EDWARD EYRE AND WILLIAM SPOTTISWOODE,

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PUBLISHED AT THE GREAT SEAL PATENT OFFICE,

SOUTHAMPTON BUILDINGS, HOLBORN.

1858.

CHRONOLOGICAL INDEX

OF

PATENTS APPLIED FOR AND PATENTS GRANTED.

PITMAN. 1st January 1857.	1. JOHN TALBOT PITMAN, of the American and European Patent Offices, 67, Gracechurch Street, London, for an invention for—"A machine for making carpet lining and other similar articles."—*A communication.* *Letters Patent sealed.*
REINHARDT. 1st January 1857.	2. CHARLES CHRISTIAN REINHARDT, of the City of Baltimore, in the State of Maryland, United States of America, for an invention for—"An improvement in the manner of fastening metallic backs to truss pads of glass, porcelain, or other analogous substances." *Letters Patent sealed.*
RIGBY. 1st January 1857.	3. WILLIAM RIGBY, of Salford, near Manchester, in the County of Lancaster, Engraver, for an invention for—"Improvements in machinery or apparatus for engraving metallic cylinders or rollers employed for printing calico and other substances." *Letters Patent sealed*
BOURNE. 1st January 1857.	4. JOHN BOURNE, of No. 9, Billiter Street, in the City of London, Civil Engineer, for an invention for—"An improved steam train for navigating shallow rivers." *Provisional protection only.*
NOUALHIER. PRÉVOST. 1st January 1857.	5. EUGÈNE THÉODORE NOUALHIER, and JEAN BAPTIST PRÉVOST, both of Paris, in the Empire of France, for an invention for—"Improvements in applying metals over hard vitrified or any other surfaces, by galvanoplastic process." *Letters Patent sealed.*
SMITH. WISEMAN. 1st January 1857.	6. JOSEPH SMITH, of Great Bridgewater Street, in the City of Manchester, Mechanic, and HORATIO WISEMAN, of Great Ancoats Street, in the same City, Cabinet Maker and Joiner, for an invention for—"Improvements in shutters for shop fronts and in apparatus connected therewith." *Provisional protection only.*
MABERLY. 1st January 1857.	7. FREDERICK HERBERT MABERLY, of Stowmarket, in the County of Suffolk, Master of Arts, for an invention for—"Improvements in the construction of wheeled carriages." *Letters Patent sealed.*
AYCKBOURN. 1st January 1857.	8. FREDERICK AYCKBOURN, of 4, Lyon's Inn, Strand, in the County of Middlesex, Gentleman, for an invention for—"Improvements in stockings for personal wear." *Letters Patent sealed.*
STOTT. 1st January 1857.	9. FREDERIC SARLEY STOTT, of Bradford, in the County of York, Engineer, for an invention for—"Improvements in slide valves applicable to steam and other motive-power engines." *Letters Patent sealed.*
LORIMIER. 1st January 1857.	10. ANTHONY LORIMIER, of Bedford Square East, Commercial Road, in the County of Middlesex, for an invention for—"An improvement in preparing the surfaces of printers' inking rollers and other articles when vulcanized india-rubber is used." *Letters Patent sealed.*
PHILLIPS. 1st January 1857.	11. WILLIAM HENRY PHILLIPS, of 16, Essex Street, Strand, for an invention for —"Improvements in stereoscopes." *Letters Patent sealed.*
FOWLER. 1st January 1857.	12. JOHN FOWLER, Junior, of Havering, near Romford, in the County of Essex, for an invention for—"Improvements in giving motion to ploughs and other agricultural implements." *Letters Patent sealed.*
LAWRANCE. 1st January 1857.	13. WILLIAM LAWRANCE, of Chelsea, in the County of Middlesex, Gentleman, for an invention for—"An improved chimney cap or cowl and ventilator." *Provisional protection only*

GORGES. 1st January 1857.

14. EDOUARD VINCENT JULES LAURENT GORGES, of the City of Paris, and Empire of France, Gentleman, for an invention for—" Improvements in preserving animal substances for food." *Letters Patent sealed.*

HOUSE. 1st January 1857.

15. JOSEPH HOUSE, of the Minories, in the City of London, Merchant, for an invention for—" Improvements in concentrating and preserving milk and other liquid articles of food." *Letters Patent sealed.*

M'LENNAN. PALMER. PALMER. 2nd January 1857.

16. JOHN M'LENNAN, of 6, Park Place, Highbury, Islington, JOHN PALMER, and JOHN HENRY PALMER, of 60, Mildmay Street, Stoke Newington, for an invention for—" An economical gas light generator and consumer." *Provisional protection only.*

WILSON. 2nd January 1857.

17. JOHN WILSON, Manufacturing Chemist, of St. Helen's, in the county of Lancaster, for an invention for—" Improvements in the manufacture of steel." *Provisional protection only.*

PETTIGREW. 2nd January 1857.

18. JOHN PETTIGREW, of Glasgow, in the county of Lanark, North Britain, Baker, for an invention for—" Improvements in the manufacture of bread." *Letters Patent sealed.*

JOHNSON. 2nd January 1857.

19. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of 166, Buchanan Street, in the City of Glasgow, North Britain, Gentleman, for an invention for—" Improvements in apparatus for roasting meat."—*A communication from Perrin de Musigny, of Dijon, in the Empire of France, Merchant.* *Provisional protection only.*

JOHNSON. 2nd January 1857.

20. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of 166, Buchanan Street, in the City of Glasgow, North Britain, Gentleman, for an invention for—" Improvements in pressure gauges."—*A communication.* *Provisional protection only.*

GRAS. 2nd January 1857.

21. AUGUSTIN GRAS, of Marseilles, in the Empire of France, Mechanic, for an invention for—" Improvements in obtaining motive-power." *Provisional protection only.*

BAIRD. 2nd January 1857.

22. JOHN BAIRD, of Govan, near Glasgow, for an invention for—" Improvements in planting potatoes." *Provisional protection only.*

SZERELMEY. 2nd January 1857.

23. NICOLAUS CHARLES SZERELMEY, of 5, Bermuda Place, Bath Road, Queen's Road, Peckham, in the County of Surrey, Esquire, for an invention for—" Improvements in preparing combinations of materials for rendering walls and other structures waterproof." *Letters Patent sealed.*

TURNER. 2nd January 1857.

24. JOSEPH TURNER, of King's Lynn, in the County of Norfolk, Engineer, for an invention for—" Improvements in oscillating cylinder steam-engines." *Provisional protection only.*

HARRIS. 2nd January 1857.

25. JAMES HARRIS, of Hanwell, in the County of Middlesex, Engineer, for an invention for—" Improvements in obtaining and transmitting motive-power." *Letters Patent sealed.*

BROOMAN. 2nd January 1857.

26. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, Patent Agent, for an invention for—" Certain improvements in rotary steam-engines." —*A communication.* *Provisional protection only.*

BROOMAN. 2nd January 1857.

27. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London Patent Agent, for an invention for—" An improved steam-engine."—*A communication.* *Provisional protection only.*

WATKINS. 3rd January 1857.

28. LEONARD WILLIAM WATKINS, of No. 77, Charlotte Terrace, New Cut, in the Parish of St. Mary, Lambeth, in the County of Surrey, for an invention for—" The manufacture of a composition commonly known as putty, to be used in glazing and other purposes." *Letters Patent sealed.*

FERRO. 3rd January 1857.

29. FRANCESCO FERRO, of Genoa, in the kingdom of Sardinia, and No. 2, Hatton Garden, London, for an invention for—" The manufacture of paper from a vegetable or herb that grows in the Isle of Sardinia and Spain, and which he proposes to call Ferus Paper." *Provisional protection only*

NEWTON. 3rd January 1857.

30. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—" Certain improvements in the means of connecting, accumulating, retaining, and applying reserved power for the application of railway breaks in sudden emergencies."—*A communication.* *Letters Patent sealed.*

CROLL. 3rd January 1857.	31. ALEXANDER ANGUS CROLL, of Harold's Wood Lodge, near Romford, in the County of Essex, Civil Engineer, for an invention for—"Improvements in the manufacture of coal gas." *Letters Patent sealed.*
BROOMAN. 3rd January 1857.	32. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, Patent Agent, for an invention for—"Improvements in winding, twisting, and doubling fibrous materials, in the machinery employed therein, and in the mode of driving the same, parts of which improvements are applicable to the communicating of rotary motion to other machinery."—*A communication from J. B. Heiller, of Mulhouse.* *Letters Patent sealed.*
BINKS. 3rd January 1857.	33. CHRISTOPHER BINKS, of the City of London, in the County of Middlesex, for an invention for—"Improvements in treating ore in the manufacture of iron and in obtaining products therefrom." *Letters Patent sealed.*
BINKS. 3rd January 1857.	34. CHRISTOPHER BINKS, of the City of London, in the County of Middlesex, for an invention for—"Improvements in obtaining certain compounds of cyanogen. *Letters Patent sealed.*
FORSYTH. 5th January 1857.	35. THOMAS FORSYTH, of the City of Manchester, Engineer, for an invention for—"Improvements in locomotive and other steam-engines." *Letters Patent sealed.*
INGHAM. INGHAM. INGHAM. 5th January 1857.	36. JOHN INGHAM, of Bradford, and EDWARD INGHAM, of the same place, and BENJAMIN INGHAM, of Halifax, in the County of York, Dyers and Finishers, for an invention for—"Improvements in apparatus employed in finishing textile fabrics." *Letters Patent sealed.*
BRUNDISH. 5th January 1857.	37. ANDREW BRUNDISH, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"Improvements in mounting knobs and in constructing and mounting roses for locks, latches, and other such like fastenings." *Letters Patent sealed.*
JOWETT. 5th January 1857.	38. HENRY ALFRED JOWETT, of Sawley, in the County of Derby, Civil Engineer, for an invention for—"Improvements in steam-engines." *Provisional protection only.*
BRAITHWAITE. 5th January 1857.	39. FREDERICK BRAITHWAITE, of 32, Gower Street, Bedford Square, in the County of Middlesex, Civil Engineer, for an invention for—"An improved mode of extracting the iron from tin ores." *Provisional protection only.*
BAKER. 5th January 1857.	40. DAVID BAKER, of the Gisbro' Alum Works, Yorkshire, for an invention for—"An improvement in the manufacture of paper." *Letters Patent sealed.*
GOSSAGE. 5th January 1857.	41. WILLIAM GOSSAGE, of Widnes, in the County of Lancaster, for an invention for—"Improvements in the manufacture of sulphuric acid and in the construction of apparatus used for such manufacture." *Provisional protection only.*
OLDHAM. 5th January 1857.	42. JOHN OLDHAM, of Preston, in the County of Lancaster, Telegraph Clerk, for an invention for—"An apparatus for closing the supply cocks of gas burners." *Provisional protection only.*
HYDE. 5th January 1857.	43. JOHN MOORE HYDE, of Cumberland Iron Works, in the City of Bristol, Iron Ship Builder, for an invention for—"Improvements in iron and wooden ships or vessels, and in the adaptation of the machinery for propelling the same." *Letters Patent sealed.*
DUMARCHEY. LEVY. MAYER. 6th January 1857.	44. FRANÇOIS FRÉDÉRIC DUMARCHEY, SAMUEL LEVY, and JOSEPH MAYER, all of Paris (France), for an invention for—"Improvements in wheels and axles for common road carriages." *Letters Patent sealed.*
KENNARD. 6th January 1857.	45. THOMAS WILLIAM KENNARD, of Sussex Gardens, Hyde Park, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in metallic piles." *Provisional protection only.*
HOLMES. 6th January 1857.	46. THOMAS HOLMES, of Pendleton, in the County of Lancaster, Bleacher, for an invention for—"Improvements in the prevention or consumption of smoke in furnaces and fireplaces." *Letters Patent sealed.*
RITTERBANDT. 6th January 1857.	47. LOUIS ANTOINE RITTERBANDT, of 45, Warwick Street, Regent Street, London, in the County of Middlesex, Doctor of Medicine, for an invention for—"Improvements in the treatment of substances containing earthy phospates." *Letters Patent sealed.*

TRIPE.
6th January 1857.

48. JULIUS DECIMUS TRIPE, of King's Place, Commercial Road, in the County of Middlesex, Gentleman, for an invention for—"Improvements in mechanism for affording increased security to valves, taps, or other apparatus used for regulating or interrupting the flow of gases, vapours, and liquids." *Provisional protection only.*

MABERLY.
6th January 1857.

49. FREDERICK HERBERT MABERLY, of Stowmarket, in the County of Suffolk, Master of Arts, for an invention for—"Improvements in constructing receptacles for sewerage, for separating the fluid from the solid portion thereof, and for purifying, storing, and carrying away the same." *Provisional protection only.*

BOUGLEUX.
6th January 1857.

50. HENRY BOUGLEUX, of Leghorn, for an invention for—"Improvements in steam-boilers." *Letters Patent sealed.*

WRIGHT.
6th January 1857.

51. CHARLES EMILUS WRIGHT, of Green Street, Blackfriars, for an invention for—"Improvements in preparing lubricating compounds." *Letters Patent sealed.*

BROOMAN.
6th January 1857.

52. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, Patent Agent, for an invention for—"Improvements in knitting-frames."—*A communication from Mr. Puech.* *Letters Patent sealed.*

DUNBAR.
6th January 1857.

53. ALEXANDER ARTHUR DUNBAR, of Glasgow, in the County of Lanark, North Britain, Joiner, for an invention for—"Improvements in lifting, lowering, and disengaging ships' boats." *Provisional protection only.*

TRATTLES.
6th January 1857.

54. MATTHEW TRATTLES, of Staithes, in the Parish of Inderwill, in the County of York, Tool Maker, for an invention for—"Improvements in tools for cutting cylindrical and conical forms." *Letters Patent sealed.*

COOK.
6th January 1857.

55. CHARLES COOK, of 76, Mount Street, Grosvenor Square, in the County of Middlesex, Builder, for an invention for—"Improvements in apparatus for generating draughts in chimnies, and for other purposes." *Provisional protection only.*

HARGREAVES.
MOSEDALE.
7th January 1857.

56. BENJAMIN HARGREAVES, of Habergham Eaves, near Burnley, in the County of Lancaster, Cabinet Maker, and ABRAHAM MOSEDALE, of Burnley aforesaid, Moulder, for an invention for—"Certain improvements in looms for weaving." *Provisional protection only.*

CLAUS.
7th January 1857.

57. CHARLES FREDERICK CLAUS, of Latchford, in the County of Chester, Chemist, for an invention for—"Obtaining tin or compounds of tin from the scraps or clippings of tinned sheet iron." *Letters Patent sealed and Specification filed, by order.*

MORRIS.
7th January 1857.

58. JAMES MORRIS, of New Kent Road, in the County of Surrey, Ladder and Barrow Maker, for an invention for—"Improvements in washing-machines." *Letters Patent sealed.*

PILKINGTON.
ENTWISLE.
7th January 1857.

59. PETER PILKINGTON, and THOMAS ENTWISLE, of Accrington, in the County of Lancaster, for an invention for—"Improvements in machinery or apparatus for washing, cleaning, agitating, grinding, polishing, or mixing various materials." *Provisional protection only.*

CURTIS.
7th January 1857.

60. WILLIAM JOSEPH CURTIS, of 1, Crown Court, Old Broad Street, in the City of London, for an invention for—"Improvements in railway axletree boxes." *Provisional protection only.*

SMITH.
7th January 1857.

61. WILLIAM YOUNG SMITH, of No. 77, Sydney Street, Sheffield, in the County of York, for an invention for—"An improvement in sawing all kinds of wood." *Letters Patent sealed.*

HILL.
7th January 1857.

62. HENRY CHARLES HILL, of Croydon, Surrey, for an invention for—"Improvements in screw and lifting jacks, and in machines for lifting, pressing, and lowering." *Letters Patent sealed.*

COOPER.
8th January 1857.

63. GEORGE PATE COOPER, of Walworth, in the County of Surrey, for an invention for—"Improvements in the manufacture of shirt collars."—*Letters Patent sealed.*

GOODMAN.
MYERS.
GOODMAN.
8th January 1857.

64. JULIUS GOODMAN, ABRAHAM MYERS, and LOUIS GOODMAN, of No. 25, King David Lane, Shadwell, in the County of Middlesex, for an invention for—"Improvements in the manufacture of caps or coverings for the head." *Letters Patent sealed.*

NEWTON.
8th January 1857.

65. RUPERT NEWTON, of Birmingham, in the County of Warwick, Commercial Traveller, for an invention for—"A new or improved manufacture of metallic boxes." *Provisional protection only.*

PRESTWICH. 8th January 1857.

68. WRIGHT PRESTWICH, of Oldham, in the County of Lancaster, Dentist, for an invention for—"Improvements in gas burners." *Provisional protection only.*

HUGHES. 8th January 1857.

67. EDWARD JOSEPH HUGHES, of the City of Manchester, in the County of Lancaster, Patent Agent, for an invention for—"Improvements in the manufacture and application of compounds resembling gutta-percha and caoutchouc, from flour, fibrine, gelatine, and other vegetable and animal substances."—*A communication.* *Letters Patent sealed.*

HARRIS. 8th January 1857.

68. JAMES HARRIS, of Hanwell, in the County of Middlesex, Engineer, for an invention for—"An improved lock and method of acting upon lock bolts, latches, taps, and valves, railway and other signal bells, and other like apparatuses." *Letters Patent sealed.*

M'DONALD. 8th January 1857.

69. ALEXANDER M'DONALD, of the Polished Granite Works, Aberdeen, North Britain, for an invention for—"Improvements in the manufacture of columns, pilasters, and other similar structures of granite, marble, porphyry, jasper, serpentine, sienite, and other stones capable of receiving a high polish." *Letters Patent sealed.*

LAWES. 8th January 1857.

70. THOMAS LAWES, of the Office for Patents, 77, Chancery Lane, in the County of Middlesex, for an invention for—"A machine or apparatus to be used in cleansing, purifying and drying animal and vegetable substances." *Provisional protection only.*

BALL. WILKINS. 8th January 1857.

71. THOMAS BALL and JOHN WILKINS, both of Nottingham, Manufacturers, for an invention for—"Improvements in manufacturing looped fabrics suitable for the making of gloves and other articles." *Letters Patent sealed.*

RUSSELL. HOWELL. 8th January 1857.

72. JOHN JAMES RUSSELL, of Wednesbury, and JOSEPH BENNETT HOWELL, of Sheffield, for an invention for—"Improvements in the manufacture of steel tubes applicable to the flues of steam-boilers and other uses." *Letters Patent sealed.*

KEATES. 8th January 1857.

73. THOMAS WILLIAM KEATES, of Chatham Place, in the City of London, Chemist, for an invention for—"Improvements in the treatment of Rangoon naphtha and other varieties of petroleum." *Provisional protection only.*

ROBERTS. 8th January 1857.

74. JOHN ROBERTS, of Upnor, in the County of Kent, Terra Cotta Manufacturer, for an invention for—"Improvements in the stoppering or closing of jars, bottles and other vessels, applicable also to the joining of earthenware and other pipes." *Provisional protection only.*

TURNBULL. 8th January 1857.

75. ROBERT TURNBULL, of Harwich, in the County of Essex, Foreman Shipwright, for an invention for—"Improvements in cradles for heaving up ships." *Letters Patent sealed.*

DAY. HINKS. 9th January 1857.

76. JOHN ROCK DAY, of Birmingham, in the County of Warwick, Machinist, and JOSEPH LESTER HINKS, of Birmingham aforesaid, Manufacturer, for an invention for—"Improvements in constructing and attaching knobs and handles of drawers and doors, cupboard turns, and other such like articles." *Letters Patent sealed.*

JOHNSON. 9th January 1857.

77. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of 166, Buchanan Street, in the City of Glasgow, North Britain, for and invention for—"Improvements in machinery or apparatus for sewing or uniting and ornamenting fabrics."—*A communication from Pierre Chevolot, of Paris, in the Empire of France, and Jean François Ligney, of the same place, Merchants.* *Letters Patent sealed.*

SMITH. 9th January 1857.

78. ROBERT SMITH, of Longridge, near Preston, in the County of Lancaster, Manufacturer, far an invention for—"Certain improvements in the manufacture of corded skirtings and corded petticoats." *Letters Patent sealed.*

JOHNSON. 9th January 1857.

79. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Eields, in the County of Middlesex, and of 166, Buchanan Street, in the City of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in the application of the electrotype or galvano-plastic processes."—*A communication from Etienne Lenoire, of Paris, in the Empire of France, Galvaniser.* *Letters Patent sealed.*

CARRUTHERS. 9th January 1857.

80. JOHN ANDERTON CARRUTHERS, of Over Darwen, near Blackburn, in the County of Lancaster, Reed Maker, for an invention for—"Improvements in the mode or method of forming the lease or shed in sizing, warping, or weaving." *Provisional protection only.*

HARDACRE. 9th January 1857.

81. JAMES HARDACRE, of the City of Manchester, in the County of Lancaster, Machinist, for an invention for—"Improvements in machinery or apparatus for preparing cotton wool and other fibrous subtances to be spun."
Provisional protection only.

GIBBS. 9th January 1857.

82. JOSEPH GIBBS, of Abingdon Street, in the City of Westminster, Civil Engineer, for an invention for—"Improvements in extracting gold and silver from their matrices and from other substances or materials with which they are combined, mixed, or associated." *Provisional protection only.*

BAGSHAW. HARRIS. 9th January 1857.

83. JOHN BAGSHAW, and JOHN PAINE HARRIS, both of Belstead, in the County of Suffolk, for an invention for—"Improved medicinal mixtures adapted for curing diseases of cattle." *Letters Patent sealed.*

GRATRIX. GRATRIX. 10th January 1857.

84, JOHN and CHRISTOPHER GRATRIX, of Preston in the County of Lancaster, Machine Makers, for an invention for—"Improvements in looms."
Letters Patent sealed.

BRETHON. 10th January 1857.

85. LOUIS JULIEN BRETHON, of the Town of Tours, in the Empire of France, Practical Engineer, for an invention for—"Improvements in machinery for manufacturing draining pipes, bricks, tiles, and all other similar plastic articles."
Letters Patent sealed.

KYLE. 10th January 1857.

86. DAVID DUNNE KYLE, of Albany Street, Regent's Park, in the County of Middlesex, for an invention for—"A method of retarding or stopping railway trains and carriages, applicable also to carriages on common roads." *Letters Patent sealed*

ADAMS. 10th January 1857.

87. JOHN ADAMS, of No. 13, Ivy Cottages, Queen's Road, Dalston, London, for an invention for—"A Minié or other rifle sight on a new and improved plan."
Provisional protection only.

CHANTER. WAKEFIELD. 10th January 1857.

88. JOHN CHANTER, of Bow Road, in the County of Middlesex, and JOHN WAKEFIELD, of Inchicore, in the County of Dublin, Engineer, for an invention for—"Improvements in the fire-boxes or furnaces of locomotive engine boilers."
Letters Patent sealed.

HODGSON. 10th January 1857.

89. JAMES HODGSON, of 16, Sweeting Street, Liverpool, for an invention for—"An improvement in constructing wrought iron masts, yards, bowsprits, and other ships' spars." *Letters Patent sealed.*

KUKLA. 10th January 1857.

90. FRANCIS XAVIER KUKLA, of Raven Row, Mile End Gate, in the County of Middlesex, for an invention for—"Improvements in apparatus for heating stoves by gas." *Letters Patent sealed.*

OLLIFFE. GOLLOP. 10th January 1857.

91. CHARLES RICHARD OLLIFFE, of Park Lane, Hyde Park, and JAMES ANNING GOLLOP, of New Oxford Street, both in the County of Middlesex, for an invention for—"Improved apparatus for cleaning knives." *Letters Patent sealed.*

PORTER. 10th January 1857.

92. JOHN FRANCIS PORTER, of 11, Park Street, Westminster, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in the manufacture of bricks and other articles of clay and brick earth or of the like materials."
Letters Patent sealed.

DESRUES. 10th January 1857.

93. PAUL DESRUES, of Paris, in the Empire of France, Chemist, for an invention for—"Improvements in purifying gas." *Provisional protection only.*

WATT. 10th January 1857.

94. WILLIAM WATT, of Belfast, in the County of Antrim, in Ireland, for an invention for—"Improvements in treating or preparing indian corn and other grain and amylaceous vegetable substances for fermentation and distillation."
Letters Patent sealed.

BROOMAN. 10th January 1857.

95. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, Patent Agent, for an invention for—"Improvements in galvanic batteries and in apparatus connected therewith."—*A communication from Messieurs Grenet, junior, and de Fonvielle.* *Letters Patent sealed.*

BROOMAN. 10th January 1857.

96. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, Patent Agent, for an invention for—"Improvements in propelling ships, boats, and other vessels."—*A communication from François Jeandeau.* *Provisional protection only.*

BIRAM. 12th January 1857.

97. BENJAMIN BIRAM, of Rotherham, in the County of York, Gentleman, for an invention for—"Improvements in machines for washing coal and other minerals."
Provisional protection only.

WILSON. 12th January 1857.

98. GEORGE FERGUSSON WILSON, of Belmont, Vauxhall, in the County of Surrey, for an invention for—"Improvements in treating Burmese and such like petroleum and their products." *Letters Patent sealed.*

GOODWIN. 12th January 1857.

99. ARNOLD GOODWIN, of 69, Guildford Street, London, S.E., Engineer, for an invention for—"An improvement in fixing the tubular flues of steam-boilers." *Letters Patent sealed.*

HOWELL. HARVEY. 12th January 1857.

100. JOSEPH BENNETT HOWELL, of Sheffield, Steel Manufacturer, and NICHOLAS HARVEY, of 12, Haymarket, Engineer, for an invention for—"Improvements in the manufacture of steam-boilers." *Provisional protection only.*

SCOTT. HOLDWAY. 12th January 1857.

101. URIAH SCOTT, of Camden Town, Civil Engineer, and FREDERIC HOLDWAY, of Bayswater, both in the County of Middlesex, for an invention for—"Improvements in the manufacture of metal type, and the arrangement of the same for various purposes." *Provisional protection only.*

ESKHOLME. WILKES. 12th January 1857.

102. GEORGE ESKHOLME, and HENRY WILKES, both of Rotherham, in the County of York, Engineers, for an invention for—"Improvements in apparatus for preventing waste of water from service pipes and cisterns." *Letters Patent sealed.*

CHRIMES. 12th January 1857.

103. RICHARD CHRIMES, of Rotherham, in the County of York, Brass Founder, for an invention for—"Improvements in apparatus for regulating the pressure of fluids." *Letters Patent sealed.*

BOWER. 13th January 1857.

104. ALFRED BOWER, of Liverpool, in the County of Lancaster, Cotton Broker, for an invention for—"Improvements in or applicable to the keels of navigable vessels." *Letters Patent sealed.*

HINKS. WELLS. 13th January 1857.

105. JOHN HINKS, of Birmingham, in the County of Warwick, Manufacturer, and GEORGE WELLS, of Birmingham aforesaid, Manufacturer, for an invention for—"An improvement or improvements in metallic pens." *Letters Patent sealed.*

THURTELL. 13th January 1857.

106. WALTER THURTELL, the younger, of Wells, in the County of Norfolk, Merchant, for an invention for—"Manufacturing cases of deposit for adhesive stamps, labels, or papers, so arranged that such adhesive papers are moistened and kept in a moistened state distinct and separate." *Complete Specification; Letters Patent sealed.*

GOSSAGE. 13th January 1857.

107. WILLIAM GOSSAGE, of Widnes, in the County of Lancaster, Chemist, for an invention for—"Improvements in the manufacture of sulphuric acid, and in the construction of apparatus used for such manufacture." *Letters Patent sealed.*

CHEETHAM. 13th January 1857.

108. DAVID CHEETHAM, of Rochdale, in the County of Lancaster, Machinist, for an invention for—"Improvements in apparatus applicable to steam and other boilers." *Provisional protection only.*

POTTER. 13th January 1857.

109. MICHAEL POTTER, of the City of Manchester, Gentleman, for an invention for—"The application of certain materials in the manufacture of healds for weaving." *Letters Patent sealed.*

GALTON. 13th January 1857.

110. ROBERT CAMERON GALTON, of Ham Common, in the County of Surrey, for an invention for—"An apparatus for giving alarm to the inmates of dwelling-houses in cases of burglary." *Provisional protection only.*

VERDEIL. MICHEL. 13th January 1857.

111. FRANÇOIS AUGUSTE VERDEIL, of No. 30, Rue St. Sulpice, in the City of Paris, and EMOND MICHEL, of No. 4, Quai Imperial, Puteaux (Department of the Seine), France, for an invention for—"Improvements in obtaining extracts from madder for dyeing and printing." *Letters Patent sealed.*

BARSHAM. 13th January 1857.

112. JOHN BARSHAM, of Albert Road, Kingston-upon-Thames, in the County of Surrey, Manufacturer, for an invention for—"An improvement in the manufacture of mats or fabrics used for packing." *Letters Patent sealed.*

RUSSELL. 13th January 1857.

113. ROBERT RUSSELL, of the firm of Fowkes and Russell, of Derby, in the County of Derby, Iron Founders, for an invention for—"Improvements in stoves and fireplaces." *Letters Patent sealed.*

MURRAY. 14th January 1857.

114. Sir JAMES MURRAY, Knight and M.D. of Dublin, in the County of Dublin, for—"An invention for abating the smells and increasing the fertilizing usefulness of liquid manures, sewage, gas or other liquors, and for means of raising or propelling such mixtures and other solids or fluids to convenient heights or distances." *Letters Patent sealed.*

DEMANET. 14th January 1857.

115. JEAN BAPTISTE VICTOR DEMANET, of No. 53, Frith Street, Soho, for an invention for—" Preventing accidents on railways."
Provisional protection NOT *granted.*

HADDAN. 14th January 1857.

116. JOHN COOPE HADDAN, of No. 4, Cannon Row, in the City of Westminster, Civil Engineer, for an invention for—" Improvements in smelting ores and in roasting and extracting products therefrom."—*A communication.* *Letters Patent sealed.*

NEWTON. 14th January 1857.

117. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—" An improved steam-engine."—*A communication.* *Letters Patent sealed.*

NEWTON. 14th January 1857.

118. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—" An improvement in rollers employed for calendering, mangling, and other processes of analogous character."—*A communication.* *Letters Patent sealed.*

BLITTKOWSKI. 14th January 1857.

119. GUSTAV ADOLPH BLITTKOWSKI, of New York, United States of America, for an invention for—" Improvements in breech loading fire-arms."
Provisional protection only.

HOBBS. 15th January 1857.

120. ALFRED CHARLES HOBBS, of 97, Cheapside, London, for an invention for —" An improvement in locks and latches." *Letters Patent sealed.*

FOWLER. 15th January 1857.

121. DAVID HAMILTON FOWLER, of the City of New Orleans, and State of Louisiana, United States of America, for an invention for—" An improvement in steam-boilers." *Letters Patent sealed.*

PARKER. MARTIN. 15th January 1857.

122. GEORGE PARKER, of the City of Manchester, Cotton Dealer, and WILLIAM MARTIN, of the same place, Manager, for an invention for—" Certain improvements in machinery for opening, cleaning, and preparing cotton." *Letters Patent sealed.*

HIGHAM. 15th January 1857.

123. JOSEPH HIGHAM, of the City of Manchester, Musical Instrument Manufacturer, for an invention for—" Improvements in valve musical instruments."
Letters Patent sealed.

WILLIAMS. 15th January 1857.

124. CHARLES WYE WILLIAMS, of Liverpool, in the County Palatine of Lancaster, Gentleman, for an invention for—" Improvements in furnace grates and fire-bars." *Letters Patent sealed; no specification filed.*

HENLEY. 15th January 1857.

125. THOMAS FREDERICK HENLEY, of Bromley, in the County of Middlesex, for an invention for—" Improvements in the preparation or manufacture of certain beverages or liquors of the nature and character of home made wines, and in the means of obtaining the same." *Provisional protection only.*

WATKINS. 15th January 1857.

126. FRANCIS WATKINS, of Summerfield Cottage, Birmingham Heath, Birmingham, in the County of Warwick, for an invention for—" Improvements in machinery for manufacturing bolts, spikes, and rivets." *Letters Patent sealed.*

NEWTON. 15th January 1857.

127. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—" An improvement in steam-engines."—*A communication.* *Letters Patent sealed.*

HOMAN. 15th January 1857.

128. JULIUS HOMAN, of Milk Street, Cheapside, in the City of London, Manufacturing Outfitter, for an invention for—" Improved machinery for folding cloth into lengths." *Letters Patent sealed.*

BEDSON. 15th January 1857.

129. GEORGE BEDSON, of Manchester, in the County of Lancaster, Manager, for an invention for—" Improvements in coating and insulating wire."
Letters Patent sealed.

MUIR. M'ILWHAM. 15th January 1857.

130. MATTHEW ANDREW MUIR, of Glasgow, in the County of Lanark, North Britain, Machinist, and JAMES M'ILWHAM, of the same place, Machinist, for an invention for—" Improvements in moulding or shaping metals."
Letters Patent sealed.

ADAMSON. HOLLAND. 15th January 1857.

131. ROBERT ADAMSON, of Preston, in the County of Lancaster, Iron Founder, and RICHARD HOLLAND, of the same place, Engineer, for an invention for—" Certain improvements in looms for weaving." *Provisional protection only.*

HAYCRAFT. 16th January 1857.

132. SAMUEL HAYCRAFT, of Birmingham, in the County of Warwick, Commission Agent, for an invention for—" Improvements in anchors." *Provisional protection only.*

TOWNSEND. 16th January 1857.

133. THOMAS JACKSON MILNES TOWNSEND, of Searby, near Brigg, in the County of Lincoln, for an invention for—"Improvements in drain pipes and in machinery for producing the same." *Letters Patent sealed.*

EDRIDGE. 16th January 1857.

134. JOHN EDRIDGE, of Birmingham, in the County of Warwick, Pin Manufacturer, for an invention for—"Improvements in 'safety pins' for dress and other similar purposes." *Provisional protection only.*

HENSON. 16th January 1857.

135. HENRY HENSON HENSON, of 38, Parliament Street, in the City of Westminster, for an invention for—"Improvements in treating animal and vegetable fibre and fabrics for preserving or waterproofing the same." *Letters Patent sealed.*

MOORE. 16th January 1857.

136. GEORGE STOREY MOORE, of Monkwearmouth, Sunderland, for an invention for—"An improvement in combining steam engines and boilers when used with screw or stern propellers of ships or vessels." *Letters Patent sealed.*

BOUSFIELD. 16th January 1857.

137. GEORGE TOMLINSON BOUSFIELD, of Sussex Place, Loughborough Road, Brixton, in the County of Surrey, for an invention for—"Improvements in sewing-machines."—*A communication.* *Letters Patent sealed.*

JOHNSON. 16th January 1857.

138. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of 166, Buchanan Street, in the City of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in scutching-machines."—*A communication from Charles Leyherr, of Laval, in the Empire of France, Spinner.* *Provisional protection only.*

VASSEROT. 17th January 1857.

139. CHARLES FRÉDERIC VASSEROT, of the firm Wells and Vasserot, of 45, Essex Street, Strand, London, Patent Agents, Mechanical Draughtsmen, &c., for an invention for—"An improved paint."—*A communication from Louis Kaercher and François Perrin, of Marseilles, France.* *Letters Patent sealed.*

PICHON. 17th January 1857.

140. PRIX AUGUSTE THÉODORE PICHON, of Dijon, France, and of 45, Essex Street, Strand, London, for an invention for—"An improved process of accelerating tanning without the assistance of acids foreign to the bark."—*Provisional protection only.*

VASSEROT. 17th January 1857.

141. CHARLES FRÉDERIC VASSEROT, of the firm Wells and Vasserot, of 45, Essex Street, Strand, London, Patent Agents, Mechanical Draughtsmen, &c., for an invention for—"A new beverage."—*A communication from Eugène Marchaud, of Fecamp, France.* *Provisional protection only.*

VASSEROT. 17th January 1857.

142. CHARLES FRÉDERIC VASSEROT, of the firm Wells and Vasserot, of 45, Essex Street, Strand, London, Patent Agents, Mechanical Draughtsmen, &c., for an invention for—"Covering all description of grain with a fertile substance or manure, and the apparatus employed for the same."—*A communication from Louis Marie Pierre Merleau d'Illiers, in the name of the firm of Caillot and Company, of Orleans, France.* *Letters Patent sealed.*

DENNISON. HIRST. 17th January 1857.

143. JOHN DENNISON, of Halifax, in the County of York, Woollen Manufacturer, and HENRY HIRST, of the same place, Overlooker, for an invention for—"Improvements in looms for weaving." *Provisional protection only.*

WALKER. 17th January 1857.

144. PETER WALKER, of Warrington, in the County of Lancaster, Brewer, for an invention for—"Improvements in apparatus employed in distilling and in the manufacture of vinegar." *Letters Patent sealed; no specification filed.*

AUTRAN. 17th January 1857.

145. AUGUSTIN LEOPOLD AUTRAN, of 39, Rue de l'Echiquier, Paris, in the Empire of France, and of 4, South Street, Finsbury, London, for an invention for—"Certain improvements in the wicks of candles and lamps." *Provisional protection only.*

COOKE. COOKE. 17th January 1857.

146. JOSEPH COOKE, of Shrewsbury, in the County of Salop, Manufacturer, and WILLIAM COOKE, of Shrewsbury aforesaid, Manufacturer, for an invention for—"A new or improved rotatory machine to be used as a steam-engine, water-wheel, fire-engine, or pump." *Provisional protection only.*

STEINMETZ. 17th January 1857.

147. ANDREW STEINMETZ, Barrister-at-Law, of the Middle Temple, and 20, Edith Villas, North End, Fulham, in the County of Middlesex, for an invention for—"The improvement of circular gas burners and their chimneys (to be called the Steinmetz burner and Steinmetz chimney)." *Provisional protection only.*

REEVES. REEVES. 17th January 1857.

148. ROBERT REEVES, and JOHN REEVES, of Bratton, Westbury, Wilts, Agricultural Implement Makers, for an invention for—"Improvements in machinery for delivering manure for agricultural purposes." *Letters Patent sealed.*

WARNE.
17th January 1857.

149. WILLIAM WARNE, of Tottenham, in the County of Middlesex, India-rubber Manufacturer, for an invention for—"Improvements in the manufacture of deckle straps." *Provisional protection only.*

LONG.
17th January 1857.

150. JOHN LONG, of Tiverton, in the county of Devon, for an invention for—"Improvements in the fastenings of brooches and other articles of jewellery." *Letters Patent sealed.*

FORTUNE.
19th January 1857.

151. NICHOLAS FORTUNE, of Paris, in the Empire of France, Cutler, for an invention for—"Improvements in the manufacture of knife handles." *Letters Patent sealed.*

VANNOY.
19th January 1857.

152. HENRY VANNOY, of 25, Rue du Faubourg du Temple, Paris, in the Empire of France, Gentleman, for an invention for—"Certain improvements in heating foot stoves, beds, and applicable to various other similar purposes." *Provisional protection only.*

SAGAR.
TURNER.
19th January 1857.

153. THOMAS SAGAR, of Burnley, in the County of Lancaster, Machine Maker, and CHRISTOPHER TURNER, of the same place, Machine Maker, for an invention for—"Certain improvements in power looms for weaving." *Letters Patent sealed.*

HASWELL.
19th January 1857.

154. JOHN HASWELL, of Vienna, in the Empire of Austria, Engineer, for an invention for—"Improvements in the construction of railway carriages, which improvements are also applicable to locomotive steam-engines." *Letters Patent sealed.*

MITCHEL.
19th January 1857.

155. WILLIAM HASLETT MITCHEL, of Brooklyn, in the County of Kings, and State of New York, United States of America, for an invention for—"Improvements in means for distributing and composing types." *Letters Patent sealed.*

SMITH.
19th January 1857.

156. THOMAS BRIGGS SMITH, of Taunton, Massachusetts, in the United States of America, now of 67, Gracechurch Street, London, for an invention for—"An improvement in constructing boxes for journals and other bearings." *Provisional protection* NOT *granted.*

CLARK.
19th January 1857.

157. EDWIN CLARK, of 20, Great George Street, Westminster, Civil Engineer, for an invention for—"Improvements in floating docks." *Letters Patent sealed.*

BIRD.
19th January 1857.

158. JOHN BIRD, Manager of Chance's Fire Brick Works, near Dudley, for an invention for—"Improvements in the manufacture of articles suitable to be used as window heads and sills, lintels, and other similar parts of buildings." *Letters Patent sealed.*

CLARK.
19th January 1857.

159. EDWIN CLARK, of 20, Great George Street, Westminster, Civil Engineer, for an invention for—"Improvements in machinery or apparatus for raising ships out of the water, for the purpose of examination and repair." *Letters Patent sealed.*

WALTON.
20th January 1857.

160. FREDERICK WALTON, of Haughton Dale Mills, near the City of Manchester, Card Manufacturer, for an invention for—"An improved plastic composition, and in the application of machinery for manufacturing the same." *Letters Patent sealed.*

EDWARDS.
ROWLEY.
20th January 1857.

161. THOMAS EDWARDS, of Brierly Hill, in the County of Stafford, Engine Fitter, and DANIEL ROWLEY, of Brierly Hill aforesaid, Roller, for an invention for—"New or improved machinery for rolling taper bars." *Provisional protection only.*

NEWTON.
20th January 1857.

162. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Certain improvements in sewing-machines."—*A communication.* *Letters Patent sealed.*

NEWTON.
20th January 1857.

163. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"An improvement in the manufacture of hosiery."—*A communication.* *Letters Patent sealed.*

CALVERT.
20th January 1857.

164. FREDERICK CRACE CALVERT, of the City of Manchester, in the County of Lancaster, Professor of Chemistry, for an invention for—"The use or application of certain substances in stiffening, sizeing, or otherwise preparing textile fabrics and paper." *Letters Patent sealed.*

BROOMAN.
20th January 1857.

165. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, Patent Agent, for an invention for—"Improvements in the manufacture of petticoats and other knitted fabrics, on circular looms or frames."—*A communication from Monsieur Lucevilliard.* *Provisional protection only.*

KIENTZY. 20th January 1857.

166. VICTOR AUGUSTIN KIENTZY, of Paris, in the Empire of France, Civil Engineer, for an invention for—"Improvements in machinery to be worked by steam or other power for clearing and ploughing land." *Letters Patent sealed.*

JOHNSON. 20th January 1857.

167. THOMAS JOHNSON, of Runcorn, in the County of Chester, Soap Manufacturer, for an invention for—"An improvement in purifying alkaline lees." *Letters Patent sealed.*

QUIN. 20th January 1857.

168. RICHARD QUIN, of the firm of Moran and Quin, of 65a, Poland Street, in the County of Middlesex, Jewellery and Photographic Case Manufacturers, for an invention for—"Improvements in stereoscopes." *Provisional protection only.*

BARLOW. WOODHOUSE. 20th January 1857.

169. WILLIAM HENRY BARLOW, of Derby, and HENRY WOODHOUSE, of 23, Parliament Street, London, for an invention for—"Improvements in the permanent way of railways." *Letters Patent sealed.*

BOYLE. 20th January 1857.

170. THOMAS BOYLE, of 1, Pilgrim Street, Ludgate Hill, in the City of London, for an invention for—"Improvements in outside reflecting lanterns." *Provisional protection only.*

JOHNSON. 20th January 1857.

171. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of 166, Buchanan Street, in the City of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in apparatus for the preservation of life and property at sea."—*A communication from John Thomas Garlick, of the City, County, and State of New York, United States of America.* *Provisional protection only.*

JOHNSON. 20th January 1857.

172. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of 166, Buchanan Street, in the City of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in apparatus for the preservation of money, books, papers, and other property, in case of disaster to ships and other vessels."—*A communication from John Thomas Garlick, of the City, County, and State of New York, United States of America.* *Letters Patent sealed.*

JACKSON. 21st January 1857.

173. LUKE DUNCAN JACKSON, of Underwood, in the County of Nottingham, Engineer, for an invention for—"An improved beer engine or syphon and vent peg, to be used for the purpose of drawing or pumping ales, beer, or other fluids." *Provisional protection only.*

MASSEY. HARGREAVES. 21st January 1857.

174. JOHN MASSEY, of Burnley, in the County of Lancaster, Cotton Spinner, and JAMES HARGREAVES, junior, of the same place, Manager, for an invention for—"Certain improvements in machinery or apparatus employed in the preparation of cotton and other fibrous materials for spinning." *Letters Patent sealed.*

CHAMBERLIN. 21st January 1857.

175. HENRY CHAMBERLIN, junior, of Narborough, in the County of Norfolk, Gentleman, for an invention for—"Improvements in implements or apparatus for ploughing, tilling, or cultivating land." *Letters Patent sealed.*

LEDURE. 21st January 1857.

176. ELOI JEAN BAPTISTE LEDURE, of Paris, in the Empire of France, Civil Engineer, for an invention for—"An improved railway break." *Provisional protection only.*

SCOTT. 21st January 1857.

177. WILLIAM CHARLES SCOTT, of Waltham Cottages, Camberwell, in the County of Surrey, Gentleman, for an invention for—"Improvements in apparatus for separating coin." *Provisional protection only.*

AITCHISON. 21st January 1857.

178. ROBERT KER AITCHISON, of London, in the County of Middlesex, Gentleman, for an invention for—"Improved apparatus for the amalgamation of precious metals." *Provisional protection only.*

DYER. 21st January 1857.

179. SAMUEL DYER, of the City of Bristol, Ship Owner, for an invention for—"Certain improvements in ships' fittings such as mast hoops, jib hanks, and jib and other travellers." *Letters Patent sealed.*

KITELEE. 21st January 1857.

180. THOMAS KITELEE, of Everett Street, Brunswick Square, in the County of Middlesex, Surgeon and Chemist, for an invention for—"An improved combination of ingredients to be employed as a breakfast powder or article of diet." *Complete Specification; Letters Patent sealed.*

BROOMAN. 21st January 1857.

181. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, Patent Agent, for an invention for—"Improvements in the manufacture of lubricating compositions."—*A communication.* *Provisional protection only.*

NEVILLE.
21st January 1857.

182. SAMUEL NEVILLE, of Gateshead, in the County of Durham, Glass Manufacturer, for an invention for—"Improvements in machinery or apparatus employed in the annealing of glass and the firing of pottery ware." *Letters Patent sealed.*

HARRIS.
21st January 1857.

183. THOMAS HARRIS, of Regent's Park, in the County of Middlesex, Consulting Brewer, for an invention for—"Improvements in apparatuses for refrigerating or cooling and regulating the temperature in worts and beer, which may also be employed as condensers in distilling." *Letters Patent sealed.*

NEWTON.
21st January 1857.

184. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"Improved means of transmitting messages by audible signals."—*A communication.* *Provisional protection only.*

CATER.
21st January 1857.

185. HENRY CATER, of Anchor Terrace, in the Borough of Southwark, Boiler Maker, for an invention for—"Improvements in steam-boilers." *Letters Patent sealed.*

MEDLOCK.
21st January 1857.

186. HENRY MEDLOCK, of No. 20, Great Marlborough Street, in the City of Westminster, Analytical Chemist, for an invention for—"An improved method of purifying water." *Letters Patent sealed.*

BOWER.
22nd January 1857.

187. LEONARD BOWER, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"An improvement or improvements in the manufacture of bolts, rivets, spikes, screw blanks, nuts for screws, and washers." *Provisional protection only.*

DELSARTE.
VALIN.
22nd January 1857.

188. FRANÇOIS ALEXANDRE NICOLAS DELSARTE, and ELISÉE VALIN, both of Paris (France), Gentlemen, for an invention for—"Improvements in pianos and stringed musical instruments." *Letters Patent sealed.*

WARNE.
22nd January 1857.

189. JAMES WARNE, of No. 3, Weymouth Place, New Kent Road, in the County of Surrey, Pewterer, for an invention for—"A new combination of metals applicable to decorative and useful purposes, part of which invention is applicable also to the method of combining metals and alloys of metals." *Letters Patent sealed.*

BROOMAN.
22nd January 1857.

190. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, Patent Agent, for an invention for—"Improvements in the preparation of oil for lighting and in lamp glasses or chimneys to be employed in burning the same."—*A communication.* *Provisional protection only.*

MANDER.
MORGAN.
22nd January 1857.

191. ELISHA MANDER, Photographic Case Manufacturer, of Birmingham, and WILLIAM MORGAN, Manufacturer, of the same place, for an invention for—"Improvements in the manufacture of photographic, jewellers', and other cases having wood or papier-mâché foundations, and where raised regular or irregular forms are required in such cases, and the machinery for carrying out such improvements, parts of which are applicable to other purposes where sawing or shaping is required." *Provisional protection only.*

ENGSTRÖM.
22nd January 1857.

192. CARL CHRISTIAN ENGSTRÖM, of Stockholm, for an invention for—"Improvements in the construction of projectiles for rifled guns and mortars." *Letters Patent sealed.*

RUBERY.
22nd January 1857.

193. JOHN RUBERY, of Birmingham, for an invention for—"Improvements in runners, top notches, and other parts of umbrellas and parasols." *Letters Patent sealed.*

DI TERMINI.
22nd January 1857.

194. GUSTAVE PEREZ DI TERMINI, of 50, Friday Street, in the City of London, for an invention for—"Improvements in the construction of artificial hands." *Letters Patent sealed.*

HICKMAN.
HICKMAN.
22nd January 1857.

195. GEORGE HADEN HICKMAN, and ALFRED HICKMAN, of Bilston, in the County of Stafford, Iron Masters, for an invention for—"An improvement in the method of manufacturing strip and hoop iron used for making wrought iron tubes and other purposes." *Provisional protection only.*

LUEDEKE.
22nd January 1857.

196. ERNST LUEDEKE, of Raglan Terrace, Robin Hood Street, Nottingham, for an invention for—"Improvements in obtaining power when steam, gas, or air is used." *Provisional protection only.*

JOHNSTONE.
22nd January 1857.

197. ROBERT JOHNSTONE, of 2, Cambridge Place, Agar Town, St. Pancras, for an invention for—"Improvements in the manufacture of fire wood for lighting fires." *Letters Patent sealed.*

ROBERTS.
22nd January 1857.

198. WILLIAM ROBERTS, of Millwall, Engineer, for an invention for—"Improvements in arranging ships' and other similar pumps." *Letters Patent sealed.*

WIMSHURST.
22nd January 1857.

199. HENRY WILLIAM WIMSHURST, of St. John's Wood, in the County of Middlesex, Gentleman, for an invention for—"An improved mode of manufacturing sheet metal." *Letters Patent sealed.*

MARSHALL.
22nd January 1857.

200. JAMES GARTH MARSHALL, of Leeds, in the County of York, Flax Spinner, for an invention for—"Improvements in preparing flax, hemp, china-grass and other vegetable fibrous substances." *Letters Patent sealed.*

SADGROVE.
22nd January 1857.

201. FREDERICK SADGROVE, of No. 2, Union Court, Old Broad Street, in the City of London, Surveyor, for an invention for—"Improvements in the construction of window or other sashes or shutters and frames." *Provisional protection only.*

HEMINGWAY.
WHEATLEY.
23rd January 1857.

202. ABRAHAM HEMINGWAY, and THOMAS WHEATLEY, both of Openshaw, near the City of Manchester, Engineers, for an invention for—"Improvements in slide valves for steam-engines and other purposes." *Letters Patent sealed.*

BEDSON.
23rd January 1857.

203. GEORGE BEDSON, Manchester, in the County of Lancaster, Manager, for an invention for—"Improvements in coating iron and other metals with metals or metallic compounds." *Letters Patent sealed.*

VASSEROT.
23rd January 1857.

204. CHARLES FRÉDERIC VASSEROT, of the firm Wells and Vasserot, of 45, Essex Street, Strand, London, Patent Agents, Mechanical Draughtsmen, &c. for an invention for—"An improvod gasogene."—*A communication.—Letters Patent sealed.*

VASSEROT.
23rd January 1857.

205. CHARLES FRÉDERIC VASSEROT, of the firm Wells and Vasserot, of 45, Essex Street, Strand, London, Patent Agents, Mechanical Draughtsmen, &c., for an invention for—"A hydrostatic bellows."—*A communication from Edmond Armand Louis d'Argy of Batignolles, Seine, France.* *Provisional protection only.*

VASSEROT.
23rd January 1857.

206. CHARLES FRÉDERIC VASSEROT, of the firm Wells and Vasserot, of 45, Essex Street, Strand, London, Patent Agents, Mechanical Draughtsmen, &c., for an invention for—"An improved phosphoric fusee or tinder box and lighter."—*A communication from Edmond Armand Louis d'Argy, of Batignolles, Seine, France.* *Provisional protection only.*

ESKHOLME.
WILKES.
23rd January 1857.

207. GEORGE ESKHOLME, of Rotherham, in the County of York, Engineer, and HENRY WILKES, of the same place, Brass Founder, for an invention for—"Improvements in ball or other cocks." *Letters Patent sealed.*

FONTAINEMOREAU.
23rd January 1857.

208. PETER ARMAND LE COMPTE DE FONTAINEMOREAU, of 39, Rue de l'Echiquier, Paris, in the Empire of France, and 4, South Street, Finsbury London, for an invention for—"Certain improvements in fire-arms and in the bullets to be used therewith."—*A communication.* *Letters Patent sealed.*

POWELL.
23rd January 1857.

209. JOHN FOLLIOTT POWELL, of 7, Albion Place, Hyde Park, in the County of Middlesex, for an invention for—"Improvements in reverberatory and other furnaces." *Letters Patent sealed.*

WILSON.
23rd January 1857.

210. GEORGE FERGUSSON WILSON, of Belmont, Vauxhall, in the County of Surrey, for an invention for—"An improvement in the manufacture of night lights." *Letters Patent sealed.*

BALESTRINI.
23rd January 1857.

211. PIER ALBERTO BALESTRINI, of Brescia, Italy, for an invention for—"Improvements in electric telegraphs." *Letters Patent sealed.*

WILSON.
23rd January 1857.

212. GEORGE FERGUSSON WILSON, of Belmont, Vauxhall, in the County of Surrey, for an invention for—"Improvements in the manufacture of candles." *Letters Patent sealed.*

AYLES.
AYLES.
24th January 1857.

213. THOMAS AYLES, and ROBERT ANDREWS AYLES, junior, of Weymouth, in the County of Dorset, Ship Builders, for an invention for—"Improvements in the construction of ships and other vessels navigating on water." *Letters Patent sealed.*

SHARKEY.
24th January 1857.

214. PATRICK HENRY SHARKEY, of Liverpool, in the County of Lancaster, Provision Dealer, for an invention for—"Improvements in the construction of scale beams or balances." *Letters Patent sealed.*

WHINES.
24th January 1857.

215. JOHN WHINES, of Pimlico, in the County of Middlesex, Carpenter, for an invention for—"Improvements in machines for dovetailing, grooving, slotting, and rabbiting." *Letters Patent sealed.*

HARRIS.
24th January 1857.

216. JAMES HARRIS, of Hanwell, in the County of Middlesex, Engineer, for an invention for—"An improved method of stopping or retarding railway carriages and trains, locomotive and stationary engines and machinery, together with certain apparatus which may be employed therein." *Letters Patent sealed.*

WALTON.
24th January 1857.

217. JOSEPH WALTON, of Bradford, in the County of York, Machine Maker, for an invention for—"Improvements in looms for weaving."—*Provisional protection only.*

WIGGS.
24th January 1857.

218. CHARLES JAMES WIGGS, of 32, Chester Street, Kennington, in the County of Surrey, for an invention for—"An improved apparatus for feeding or supplying steam-boilers with water." *Letters Patent sealed.*

GREEN.
24th January 1857.

219. DANIEL GREEN, of the firm of Singer and Green, of Vauxhall, in the County of Surrey, Potters and Drain Pipe Manufacturers, for an invention for—"Improvements in potters' kilns." *Provisional protection only.*

M'ONIE.
24th January 1857.

220. ANDREW M'ONIE, Engineer, of Glasgow, for an invention for—"Improvements in the construction of centrifugal machines or 'hydro-extractors' used for the manufacture of sugar and other purposes, and in the arrangement of appliances to give motion to such machines by steam power." *Provisional protection only.*

BESSEMER.
24th January 1857.

221. HENRY BESSEMER, of Queen Street Place, New Cannon Street, in the City of London, for an invention for—"Improvements in the manufacture of iron and steel." *Letters Patent sealed.*

STUBBS.
BURROWS.
24th January 1857.

222. WILLIAM STUBBS, of Liverpool, in the County of Lancaster, Civil Engineer, and JAMES BURROWS, of Wigan, in the said County, Civil Engineer, for an invention for—"Improvements applicable to water-closets." *Letters Patent sealed.*

CONSTANCE.
26th January 1857.

223. FRANÇOIS CONSTANCE, of Paris, in the Empire of France, for an invention for—"An improved apparatus for casting and finishing types and vignettes used for printing." *Provisional protection only.*

FORTESCUE.
26th January 1857.

224. JOHN FORTESCUE, of No. 3a, Charles Street, Middlesex Hospital, London, in the County of Middlesex, Baker, for an invention for—"Improvements in the construction of the furnaces of bakers' ovens for the purpose of consuming smoke, which improvements are also applicable to the consumption of smoke in other furnaces." *Letters Patent sealed.*

HAILE.
26th January 1857.

225. JOHN HAILE, of Warren, Rhode Island, in the United States of America, at present residing at Birmingham, in the County of Warwick, Engineer, for an invention for—"Improvements in machinery for the manufacture of nails." *Provisional protection only.*

HENSEL.
26th January 1857.

226. ADOLPHE HENSEL, of No. 4, Stafford Place, Pimlico, in the County of Middlesex, Gentleman, for an invention for—"The manufacture of german yeast from flour." *Provisional protection only.*

TIZARD.
26th January 1857.

227. WILLIAM LITTELL TIZARD, of Plymstock, in the County of Devon, Brewers' Engineer, for an invention for—"Improvements in fermenting, cleansing, and attemperating apparatus to be employed in brewing." *Letters Patent sealed.*

BROOMAN.
26th January 1857.

228. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, Patent Agent, for an invention for—"Improvements in the preparation of woollen hats, bonnets, and bodies for hats and bonnets."—*A communication from Messieurs de Clermont and Company.* *Letters Patent sealed.*

BROOMAN.
26th January 1857.

229. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, Patent Agent, for an invention for—"A method of lubricating and preventing the heating of axles, journals and bearings, in railway engines and carriages."—*A communication from Schuler Laurent.* *Letters Patent sealed.*

BROWN.
26th January 1857.

230. WILLIAM HENRY BROWN, of Portsea, in the County of Southampton, for an invention for—"Improvements in coffins." *Letters Patent sealed.*

HAMILTON.
BURRELL.
BOYDELL.
26th January 1857.

231. FRANCIS HAMILTON, of Acton, in the County of Middlesex, Gentleman, CHARLES BURRELL, of Thetford, in the County of Norfolk, Engineer, and JAMES BOYDELL, of Gloucester-Crescent, Camden Town, in the County of Middlesex, Engineer, for an invention for—"Improvements in combining ploughs with locomotive engines." *Provisional protection only.*

HIGHTON. 26th January 1857.

232. EDWARD HIGHTON, of Gloucester Road, Regent's Park, in the County of Middlesex, for an invention for—"Improvements in electric telegraphs." *Letters Patent sealed.*

JOHNSON. 26th January 1857.

233. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of 166, Buchanan Street, in the City of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in sewing-machines."—*A communication from J. E. A. Gibbs, of Virginia, United States of America.* *Letters Patent sealed.*

HOOK. 27th January 1857.

234. CHARLES TOWNSEND HOOK, of Snodland, in the County of Kent, Paper Manufacturer, for an invention for—"Improvements in the manufacture of paper."—*A communication.* *Provisional protection only.*

CROSLAND. 27th January 1857.

235. JAMES STEAD CROSLAND, of Openshaw, near the City of Manchester, Engineer, for an invention for—"Improvements in locomotive and other steam-engines." *Letters Patent sealed.*

WATSON. SINGLETON. 27th January 1857.

236. THOMAS WATSON, of Baxenden, near Accrington, in the County of Lancaster, Overlooker of Power looms, and THOMAS SINGLETON, of Over Darwen, in the said County, Weaver, for an invention for—"Improvements in looms." *Provisional protection only.*

DANGERFIELD. 27th January 1857.

237. JOHN DANGERFIELD, of West Bromwich, in the County of Stafford, Engineer, for an invention for—"Improvements in the manufacture of chains." *Letters Patent sealed.*

TURNER. 27th January 1857.

238. WILLIAM ALLIN TURNER, of No. 1, Clarges Street, Piccadilly, in the County of Middlesex, for an invention for—"Improvements in the manufacture of starch." *Letters Patent sealed.*

DOELLING. 27th January 1857.

239. GEORGE LÉONARD DOELLING, of 2, Rue Drouot, Paris, for an invention for —"Improvements in machinery or apparatus for forming screw threads." *Letters Patent sealed.*

BOUSFIELD. 27th January 1857.

240. GEORGE TOMLINSON BOUSFIELD, of Sussex Place, Loughborough Road, in the County of Surrey, for an invention for—"Improvements in coating iron and other metals with tin."—*A communication.* *Letters Patent sealed.*

STEWART. 27th January 1857.

241. DAVID YOOLOW STEWART, of Glasgow, in the County of Lanark, North Britain, Iron Founder, for an invention for—"Improvements in moulding or manufacturing cast iron pipes." *Letters Patent sealed.*

HUNTER. 28th January 1857.

242. COLIN HUNTER, of Burnside, in the County of Antrim, Ireland, for an invention for—"Improvements in bleaching or cleansing textile fabrics or materials, and materials used for making paper." *Provisional protection only.*

ELCE. HEWITT. 28th January 1857.

243. JOHN ELCE, of the City of Manchester, Machinist, and JOHN HEWITT, of the same place, Foreman, for an invention for—"Certain improvements in mules and other machines for spinning and doubling." *Letters Patent sealed.*

HARLOW. 28th January 1857.

244. ROBERT HARLOW, of Stockport, in the County of Lancaster, Brass Founder, for an invention for—"Improvements in apparatus to be applied to steam-boilers." *Letters Patent sealed.*

WHOWELL. 28th January 1857.

245. CHARLES WHOWELL, of Two Brooks, Tottington, in the County of Lancaster, Bleacher, for an invention for—"Improvements in machinery for stretching, drying, and finishing woven fabrics." *Letters Patent sealed.*

HARRIS. 28th January 1857.

246. JOSEPH HARRIS, of Bolton, in the County of Lancaster, Manufacturing Chemist, for an invention for—"Improvements in lighting gas for illumination." *Provisional protection only.*

CRANSTOUN. YOUNG. LOVELL. 28th January 1857.

247. GEORGE CRANSTOUN TROTTER CRANSTOUN, of Chirnside Bridge, in the County of Berwick, North Britain, Paper Maker, GEORGE YOUNG, of Dunse, in the same County, Plumber, and JOHN LOVELL, of Chirnside Bridge, in the same County, Paper Maker, for an invention for—"Improvements in generating steam." *Letters Patent sealed.*

COOKE. 28th January 1857.

248. THOMAS COOKE, of 1, New Street, Portland Town, in the County of Middlesex, Gentleman, for an invention for—"Improvements in ventilators for omnibuses, and in apparatus for actuating the same." *Letters Patent sealed.*

SISTERSON. 28th January 1857.

249. WALTER HENDERSON SISTERSON, of Southwark, in the County of Surrey, Engineer, for an invention for—"An improvement in cranes." *Letters Patent sealed.*

BROOMAN. 28th January 1857.

250. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, Patent Agent, for an invention for—"An improved protective matting or fabric for sheltering plants, shrubs, and other vegetable productions, pits, frames, and other similar structures, together with machinery for manufacturing the same, and the mode of supporting it when in use."—*A communication from Jules Guyot.* *Letters Patent sealed.*

HOW. 28th January 1857.

251. ANDREW PEDDIE HOW, of Mark Lane, in the City of London, Engineer, for an invention for—"An improved anti-garotte cravat." *Provisional protection only.*

BROOMAN. 28th January 1857.

252. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, Patent Agent, for an invention for—"An improved method of elevating water and other liquids.—*A communication from Julien Ramar.* *Provisional protection only.*

NORTON. 28th January 1857.

253. JAMES LEE NORTON, of the Imperial Works, Bromley-by-Bow, in the County of Middlesex, for an invention for—"Improvements in steeping or washing and rinsing machines." *Letters Patent sealed.*

GRANT. 28th January 1857.

254. WILLIAM GRANT, of 5, Newnham Street, Edgware Road, in the County of Middlesex, for an invention for—"Improvements in the manufacture of hurdles and gates." *Provisional protection only.*

NORTON. 28th January 1857.

255. JAMES LEE NORTON, of the Imperial Works, Bromley-by-Bow, in the County of Middlesex, for an invention for—"Improvements in separating animal from vegetable fibres." *Letters Patent sealed.*

CLARK. 28th January 1857.

256. ARTHUR CLARK, of 83, High Street, Southampton, in the County of Hants, for an invention for—"Improvements in signal lamps." *Letters Patent sealed.*

WILSON. 28th January 1857.

257. GEORGE FERGUSSON WILSON, of Belmont, Vauxhall, in the County of Surrey, for an invention for—"Improvements in treating Burmese and such like petroleum." *Letters Patent sealed.*

DERING. 28th January 1857.

258. GEORGE EDWARD DERING, of Lockleys, in the County of Herts, for an invention for—"Improvements in lighting and warming trains of railway carriages." *Letters Patent sealed.*

CHAMBERLIN. 28th January 1857.

259. HENRY CHAMBERLIN, Junior, of Narborough, in the County of Norfolk, Gentleman, for an invention for—"Improvements in paving or covering the surfaces of roads, streets, or ways." *Letters Patent sealed.*

SYMONDS. 28th January 1857.

260. CHARLES EDWARD SYMONDS, of No. 56, Stones End, Borough of Southwark, Paint and Colour Manufacturer, for an invention for—"Improvements in the manufacture of oxyde of lead and its salts." *Letters Patent sealed.*

HEYWOOD. 29th January 1857.

261. WILLIAM HEYWOOD, of the City of Manchester, Boiler Maker, for an invention for—"Improvements in boilers for generating steam." *Provisional protection only.*

MALINS. 29th January 1857.

262. ARTHUR MALINS, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"A new or improved method of ornamenting casters for furniture, lamps, chandeliers, cornices and cornice ends, curtain bands and curtain pins." *Letters Patent sealed.*

SAMPSON. SAMPSON. LEDGER. 29th January 1857.

263. GEORGE SAMPSON, and JOSEPH SAMPSON, both of Gordon Street, Bradford, in the County of York, Stuff Finishers, and ELIJAH LEDGER, of Lofthouse, near Wakefield, also in the County of York, Bookkeeper, for an invention for—"Improvements in apparatus for effecting the folding or rigging of woven fabrics." *Letters Patent sealed.*

JAY. SMITH. 29th January 1857.

264. SAMUEL JAY, and GEORGE SMITH, both of No. 246, Regent Street, in the County of Middlesex, for an invention for—"An improved hood or covering for the head, capable of being used either separate from or in combination with other garments, such as cloaks, mantles, capes, dressing-gowns, and other entire or partial coverings for the human body." *Provisional protection only.*

DE BUSSY. 29th January 1857.

265. CHARLES DE BUSSY, Mining Engineer, of 45, Mornington Road, London, County of Middlesex, for an invention for—"The reduction of zinc ores." *Letters Patent sealed.*

M^c^Donald. 29th January 1857.

266. James Roderick M^c^Donald, of Hamburg, Merchant, for an invention for—"Improvement in the manufacture of india-rubber overshoes."—*A communication from Nathaniel Hayward.* *Provisional protection only.*

Weild. 29th January 1857.

267. William Weild, of the City of Manchester, in the County of Lancaster, Machinist, for an invention for—"Improvements in looms for weaving pile fabrics, part of which improvements are applicable to looms for weaving other fabrics." *Letters Patent sealed.*

De Lavigerie. 30th January 1857.

268. Pierre Ernest Lavaud de Lavigerie, of 39, Rue de l'Echiquier, Paris, in the Empire of France, and 4, South Street, Finsbury, London, for an invention for—"Certain improvements in the manufacture of comforters, scarfs, and other like coverings for the neck." *Provisional protection only.*

Farrar. 30th January 1857.

269. James Farrar, of Bury, in the County of Lancaster, Agent, for an invention for—"Improvements in apparatus for regulating the pressure and flow of gas," *Provisional protection only.*

Pitman. 30th January 1857.

270. John Talbot Pitman, of the American and European Patent offices, 67, Gracechurch Street, London, for an invention for—"An improvement of the letter organization of the instrumental music scale."—*A communication.* *Letters Patent sealed.*

Thom. 30th January 1857.

271. James Thom, of Lambeth, in the County of Surrey, Mechanical Dentist, for an invention for—"Improvements in the construction and mode of fixing artificial teeth." *Letters Patent sealed.*

Montagu. 30th January 1857.

272. Samuel Montagu, of the firm of Samuel and Montagu, of 21, Cornhill, in the City of London, for an invention for—"Improvements in packing-cases." *Letters Patent sealed.*

Chibnall. 30th January 1857.

273. James Russell Chibnall, of the City of Westminster, Baker, for an invention for—"An improved method of burning or consuming smoke." *Provisional protection only.*

Lenz. 30th January 1857.

274. Charles Lenz, of Fenchurch Street, in the City of London, Metallurgist, for an invention for—"An improvement in the manufacture of cast steel." *Provisional protection only.*

Ellis. 30th January 1857.

275. Thomas Ellis, of Ty Mawr, Ponty Pridd, Glamorganshire, Engineer, for an invention for—"Certain improvements in the preparation of india-rubber and gutta-percha by combining therewith other materials." *Provisional protection only.*

Wright. 30th January 1857.

276. Alexander Wright, of Newcastle, in the County of Stafford, F.R.C.S., for an invention for—"An improved manufacture of malt." *Letters Patent sealed; no specification filed.*

Campin. 30th January 1857.

277. Frederick William Campin, of 156, Strand, in the County of Middlesex, Patent Agent, for an invention for—"The manufacture of a certain textile fabric termed by the inventor Tissu Courroie."—*A communication from Pierre Henri Moullin.* *Letters Patent sealed.*

Holden. 30th January 1857.

278. Isaac Holden, of St. Denis, near Paris, in the Empire of France, for an invention for—"Improvements in washing and drying wool and other fibres, part of which improvements is applicable when connecting together lengths of leather for other purposes." *Letters Patent sealed.*

Holden. 30th January 1857.

279. Isaac Holden, of St. Denis, near Paris, in the Empire of France, for an invention for—"Improvements in combing wool and other fibres." *Letters Patent sealed.*

Holden. 30th January 1857.

280. Isaac Holden, of St. Denis, near Paris, in the Empire of France, for an invention for—"Improvements in preparing and combing wool and other fibres." *Letters Patent sealed.*

Holden. 30th January 1857.

281. Isaac Holden, of St. Denis, near Paris, in the Empire of France, for an invention for—"Improvements in carding wool and other fibres.—*Letters Patent sealed.*

Smith. 30th January 1857.

282. Henry Smith, General Die Sinker and Embosser, of Little Hampton Street, Birmingham, in the County of Warwick, for an invention for—"Certain improvements in window price tickets, and which said improvements are also applicable to the ornamenting and priceing the wrappers or paper boxes for holding fancy and other goods, also in the mode of attaching or suspending window tickets." *Letters Patent sealed.*

AFFLECK. 30th January 1857.	283. THOMAS AFFLECK, of Ceylon, at present residing in the City of Manchester, in the County of Lancaster, for an invention for—" Improvements in machinery or apparatus for pulping coffee." *Letters Patent sealed.*
OWEN. 30th January 1857.	284. JAMES OWEN, of Worsley, in the County of Lancaster, Carpenter, for an invention for—" Certain improvements in machinery or apparatus for the prevention of accidents in ascending and descending shafts of mines, which said improvements are also applicable to hoisting and other lifting machines." *Letters Patent sealed.*
WILLIAMS. 30th January 1857.	285. JOHN ALLIN WILLIAMS, of Baydon, in the County of Wilts, Farmer, for an invention for—" Improvements in machinery or apparatus for ploughing or tilling land by steam-power." *Letters Patent sealed.*
HENSEL. 31st January 1857.	286. ADOLPH HENSEL, of No. 4, Stafford Place, Pimlico, in the County of Middlesex, for an invention for—" Making compressed yeast." *Provisional protection only.*
APPLEBY. 31st January 1857.	287. RICHARD APPLEBY, of Newcastle-on-Tyne, in the County of Northumberland, Millwright, for an invention for—" Improvements in washing-machines." *Provisional protection only.*
MORRISON. 31st January 1857.	288. DUNCAN MORRISON, of Bordesley Works, Birmingham, in the County of Warwick, for an invention for—" A new or improved manufacture of ordnance." *Letters Patent sealed.*
HARGREAVES. 31st January 1857.	289. WILLIAM HARGREAVES, of Bradford, in the County of York, Machine Wool Comber, for an invention for—" Improvements in machinery for preparing and combing wool, hair, silk, cotton, flax, and other fibrous substances." *Letters Patent sealed.*
WHITTLE. SCHOFIELD. 31st January 1857.	290. HENRY WHITTLE, of Vicars Moss, and ROBERT SCHOFIELD, of No. 5, Nuttall Street, both within the Borough of Rochdale, in the County of Lancaster, for an invention for—" Improvements in the construction of the slide valves of steam-engines, and in the mode of working the same for the better regulation of the vacuum in the cylinders thereof, economizing fuel, and for ensuring safety and steadiness of such machines whilst in action. *Letters Patent sealed.*
NEWTON. 31st January 1857.	291. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—" Improvements in the manufacture of buttons."—*A communication from Jean Felix Bapterosses, of Paris.* *Letters Patent sealed.*
WORRALL. 31st January 1857.	292. JOHN MAYO WORRALL, of Salford, in the County of Lancaster, Dyer and Finisher, for an invention for—" An improvement in finishing certain descriptions of fustians called 'cords' and 'thicksets.'" *Letters Patent sealed.*
COOPER. HEATON. LANGSHAW. 31st January 1857.	293. DANIEL COOPER, and THOMAS WOOD HEATON, both of Manchester, in the County of Lancaster, Ironmongers, and THOMAS LEE LANGSHAW, of Salford, in the same County, Foreman, for an invention for—" An improved apparatus applicable to the purposes of ventilation. *Provisional protection only.*
HOWARTH. 31st January 1857.	294. DANIEL HOWARTH, of the City of Manchester, in the County of Lancaster, Size Dealer, for an invention for—" The application of a substance, substances, or composition, not hitherto used, for sizing or preparing woollen or worsted yarns or warps for weaving." *Letters Patent sealed.*
PRICE. 31st January 1857.	295. ASTLEY PASTON PRICE, of Margate, in the County of Kent, Chemist, for an invention for—" Improvements in the separation of gold from certain auriferous mixtures, compounds, and products." *Letters Patent sealed.*
DRAY. 31st January 1857.	296. WILLIAM DRAY, of Swan Lane, in the City of London, Agricultural Implement Maker, for an invention for—" An improvement in ploughs." *Letters Patent sealed.*
HOLDING. CASBAY. 2nd February 1857.	297. WILLIAM HENRY HOLDING, and JAMES ROBERT CASBAY, both of Chatham, County of Kent, Soap Makers, for an invention for—" Improvements in the manufacture of soap." *Letters Patent sealed.*
SYMONDS. 2nd February 1857.	298. COTTON SYMONDS, of Liverpool, in the County of Lancaster, Merchant, for an invention for—" Improvements in ships' night signals." *Letters Patent sealed.*

MIDDLETON. 2nd February 1857.

299. JOHN MIDDLETON, of Calais, in the Empire of France, Lace Manufacturer, for an invention for—"Improvements in consuming the smoke of furnaces." *Provisional protection only.*

ROBINSON. 2nd February 1857.

300. RICHARD ROBINSON, of Salford, near Manchester, in the County of Lancaster, Engineer, for an invention for—"Improvements in machinery or apparatus for finishing yarns or threads." *Provisional protection only.*

DUDEBOUT. 2nd February 1857.

301. JEAN FRANÇOIS DUDEBOUT, of No. 39, Rue de l'Echiquier, Paris, in the Empire of France, and of 4, South Street, Finsbury, London, for an invention for—"Certain improvements in looms for weaving." *Letters Patent sealed.*

HODGSON. CARTER. 2nd February 1857.

302. BROOK HODGSON, and JOHN CARTER, of Halifax, in the County of York, for an invention for—"Improvements in apparatus for introducing the pile wires used in weaving Brussels carpets and other piled fabrics." *Letters Patent sealed.*

JOHNSON. 2nd February 1857.

303. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of 166, Buchanan Street, in the City of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in heating the feed water of steam-boilers."—*A communication from Messieurs Baudouin, Taniturier, and Rickard.* *Provisional protection only.*

MUIR. M°ILWHAM. 2nd February 1857.

304. MATTHEW ANDREW MUIR, of Glasgow, in the County of Lanark, North Britain, Machinist, and JAMES M°ILWHAM, of the same place, Machinist, for an invention for—"Improvements in moulding or shaping metals."—*Letters Patent sealed.*

MORRISON. 2nd February 1857.

305. ROBERT MORRISON, of the Town and County of the Town of Newcastle-upon-Tyne, Engineer, for an invention for—"Improvements in steam-boilers." *Letters Patent sealed.*

COWBURN. PRESTON. SHETLOCK. 3rd February 1857.

306. THOMAS COWBURN, of the City of Manchester, Engineer, and JONATHAN PRESTON, of Pendleton, in the County of Lancaster, Engineer, and JEREMIAH SHETLOCK, of Salford, in the County of Lancaster, Mechanic, for an invention for—"Improvements in apparatus for regulating and indicating the pressure of steam and other fluids." *Provisional protection only.*

RAYNER. 3rd February 1857.

307. THOMAS WILLIAM RAYNER, of Saint George's East, in the County of Middlesex, Plumber and Brass Founder, for an invention for—"Improvements in cocks and valves." *Letters Patent sealed.*

HUNT. 3rd February 1857.

308. JAMES HUNT, trading under the style or firm of William Hunt and Sons, Iron and Steel Works, of the Brades, in the County of Stafford, for an invention for—"Certain improvements in shovels and spades for general use." *Letters Patent sealed.*

GARAND. 3rd February 1857.

309. FLORENTIN GARAND, Mechanician, of Paris, (in the Empire of France,) and of 45, Essex Street, Strand, (London,) for an invention for—"Improvements in transmitting motion and means of stopping it immediately." *Letters Patent sealed.*

LUND. 3rd February 1857.

310. WILLIAM LUND, of Fleet Street, in the City of London, Manufacturer, for an invention for—"Improvements in securing cases containing bullion and other valuable property, parts of which are applicable to the securing of bales and other packages." *Provisional protection only.*

LAMING. 3rd February 1857.

311. RICHARD LAMING, of Hayward's Heath, Cuckfield, in the County of Sussex, for an invention for—"Improvements in purifying gas, in obtaining materials useful for that purpose, and in working up into useful products certain ammoniacal and phosphatic substances obtainable as residues in the purifying of gas." *Letters Patent sealed.*

TAYLOR. 3rd February 1857.

312. JAMES TAYLOR, of Middlesbrough-on-Tees, in the County of Yorkshire, for an invention for—"Improvements in the governors for the engines of screw-steamers and other vessels propelled from the stern." *Letters Patent sealed.*

TAYLOR. 3rd February 1857.

313. JAMES TAYLOR, of Middlesbrough-on-Tees, in the County of Yorkshire, for an invention for—"A compensating crane." *Letters Patent sealed.*

WHITE. 3rd February 1857.

314. GEORGE WHITE, of No. 5, Laurence Pountney Lane, Cannon Street, in the City of London, for an invention for—"Certain improvements in dying and printing textile fibres and fabrics."—*A communication from Mr. Charles Lanth, Chemist, of Mulhouse, France.* *Letters Patent sealed.*

COCHRANE.
3rd February 1857.

315. CHARLES COCHRANE, of the Ormesby Iron Works, Middlesbrough-on-Tees, for an invention for—"An improvement in heating blast for blast furnaces and cupolas." *Provisional protection only.*

BERNARD.
3rd February 1857.

316. JULIAN BERNARD, of the Albany, Piccadilly, in the County of Middlesex, Gentleman, for an invention for—"Improvements in fastenings for uniting wood, metal, cloth, leather, and other materials." *Letters Patent sealed.*

UNWIN.
3rd February 1857.

317. HENRY UNWIN, of Sheffield, in the County of York, Merchant, for an invention for—"Improvements in the application of waste heat from coke ovens." *Provisional protection only.*

STEINMETZ.
4th February 1857.

318. ANDREW STEINMETZ, Barrister-at-Law, of the Middle Temple, and 20, Edith Villas, North End, Fulham, in the County of Middlesex, for an invention for—"A method, mode, contrivance, or management to check the honesty of omnibus conductors and other receivers of money under similar circumstances to be accounted for to their employers, without machine or mechanical appliance." *Provisional protection only.*

HAMSHER.
4th February 1857.

319. JAMES HAMSHER, of No. 16, Elizabeth Street South, Pimlico, in the County of Middlesex, Blacking Manufacturer, for an invention for—"Improvements in the manufacture of blacking for polishing, softening, and preserving boots and shoes and other leathern articles." *Letters Patent sealed; no specification filed.*

GANDINI.
4th February 1857.

320. ODOARDO GANDINI, of No. 4, Newman Street, Oxford Street, in the County of Middlesex, Major, lately in the Venetian Army, for an invention for—"An indicating target." *Provisional protection only.*

LEWIS.
BÖHM.
4th February 1857.

321. EDWARD LEWIS, and GIDEON BÖHM, of Coleman Street, in the City of London, Lithographers, for an invention for—"Improvements in printing in colours called an improved photo-galvano-graphic chromo-graphic process." *Provisional protection only.*

MOREAU.
4th February 1857.

322. FELIX MOREAU, of Paris, France, Gentleman, for an invention for—"Recovering the fatty matters from coom or dirty axle grease and lubricating oils, thereby rendering them fit to be used again." *Provisional protection only.*

HART.
4th February 1857.

323. SAUL HART, of 33, Portland Street, Liverpool, for an invention for—"Improvements in apparatus for raising and forcing water." *Letters Patent sealed.*

DE BERGUE.
4th February 1857.

324. CHARLES DE BERGUE, of No. 9, Dowgate Hill, in the City of London, Engineer, for an invention for—"Improvements in the method of or apparatus for laying the permanent way of railways." *Letters Patent sealed.*

NEWTON.
4th February 1857.

325. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in pianofortes."—*A communication.* *Provisional protection only.*

NEWTON.
4th February 1857.

326. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"An improvement in machinery for polishing flat surfaces of glass and other substances."—*A communication.* *Letters Patent sealed.*

BURROWS.
4th February 1857.

327. JAMES BURROWS, of Wigan, in the County of Lancaster, Engineer, for an invention for—"Certain improvements in steam-engines." *Provisional protection only.*

JOHNSON.
4th February 1857.

328. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of 166, Buchanan Street, in the City of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in the treatment of flax and similar textile materials."—*A communication from Julian Lefebure, of Brussels, in the Kingdom of Belgium, Merchant.* *Letters Patent sealed.*

HOUSTON.
4th February 1857.

329. ROBERT HOLMES HOUSTON, of Greenock, in the County of Renfrew, North Britain, Manufacturer, for an invention for—"Improvements in effecting general conveyance or transport on water." *Provisional protection only.*

SUMMERS.
5th February 1857.

330. THOMAS SUMMERS, of Northam Iron Works, Southampton, Engineer, for an invention for—"Improvements in gauges for indicating pressure and vacuum." *Provisional protection only.*

SCHÄFER.
SCHÄFER.
5th February 1857.

331. PHILIPP SCHÄFER, and FREDERICK SCHÄFER, both of Brewer Street, in the County of Middlesex, Manufacturers, for an invention for—"Improvements in travelling bags or cases, and an apparatus for carrying fittings therein."
Letters Patent sealed.

NEWTON.
5th February 1857.

332. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"An improvement in casting metallic articles."—*A communication.*
Provisional protection only.

BRAZIL.
CRUMMACK.
5th February 1857.

333. CLARANCE BRAZIL, and WILLIAM NICHOLAS CRUMMACK, of Chorley, in the County of Lancaster, Manufacturers, for an invention for—"Improvements in looms for weaving."
Provisional protection only.

SMITH.
5th February 1857.

334. HENRY SMITH, of the firm of Smith and Ashby, of Stamford, in the County of Lincoln, Agricultural Implement Makers, for an invention for—"Improvements in hay making machinery."
Letters Patent sealed; no specification filed.

NEWTON.
5th February 1857.

335. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Certain improvements in breech-loading fire-arms."—*A communication.*
Provisional protection only.

CHOWEN.
5th February 1857.

336. GEORGE CHOWEN, of No. 7, James Street, Covent Garden, in the County of Middlesex, for an invention for—"Preventing further casualties on the Goodwin sands."
Provisional protection only.

STOTT.
6th February 1857.

337. THOMAS STOTT, of Sabden, near Whalley, in the County of Lancaster, Mechanic, for an invention for—"Improvements in pickers."
Provisional protection only.

MYERS.
ASKEW.
ASKEW.
6th February 1857.

338. HENRY MYERS, of 52, Rathbone Place, County of Middlesex, Medical Practitioner, CHARLES ASKEW, 27½, Charles Street, Hampstead Road, and JOHN ASKEW, 27, Charles Street, Hampstead Road, both in the County of Middlesex, Engineers, for an invention for—"Improvements in railway and other breaks, and communicator between the guard and driver of railway carriages.
Letters Patent sealed.

GREEN.
6th February 1857.

339. WILLIAM GREEN, of Pembroke Cottages, Caledonian Road, Islington, in the County of Middlesex, for an invention for—"Improvements in manufacturing or producing substitutes for leather for boots, shoes, and other uses, and in machinery or apparatus for effecting the same."
Letters Patent sealed.

BROOMAN.
6th February 1857.

340. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, Patent Agent, for an invention for—"Improvements in preparing or dressing threads and other fibrous materials, and in the machinery employed therein.—*A communication from E. C. T. Croutelle.*
Letters Patent sealed.

GILROY.
6th February 1857.

341. JAMES GILROY, of Auldhousefield, near Pollockshaws, in the County of Renfrew, Bleacher, for an invention for—"Improvements in applying starch and other semi-fluid matter, by machinery, to woven fabrics."
Letters Patent sealed.

WORRALL.
6th February 1857.

342. JOHN MAYO WORRALL, of Salford, in the County of Lancaster, Dyer and Finisher, for an invention for—"An improvement in finishing a certain description of fustians called 'Diagonals.'"
Provisional protection only.

WRIGHT.
6th February 1857.

343. GEORGE WRIGHT, of Sheffield, in the County of York, Stove Grate Manufacturer, for an invention for—"Improvements in stove grates or fireplaces."
Letters Patent sealed.

NEWTON.
6th February 1857.

344. THOMAS NEWTON, of Walsall, in the County of Stafford, Manufacturer of Saddlery, for an invention for—"Improvements in the construction of Stockmen's saddles and appendages thereto."—*Partly a communication.*
Provisional protection only.

DÉCLE.
DRAULT.
6th February 1857.

345. ANTOINE DÉCLE, and FRANÇOIS ALEXANDER DRAULT, of Paris, in the Empire of France, Jewellers, for an invention for—"Improvements in the manufacture of bracelets."
Provisional protection only.

POISSON.
6th February 1856.

346. PIERRE POISSON, of Paris, in the Empire of France, Artist, for an invention for—"Improvements in preparing and applying surfaces for painting."
Letters Patent sealed.

HEALD.
HEALD.
7th February 1857.

347. HENRY HEALD, of Sabden, Whalley, in the County of Lancaster, Cotton Manufacturer, and ARTHUR HEALD, of the same place, Manager, for an invention for—"Improvements in looms and in pickers used for weaving."
Provisional protection only.

NOMICO. HEYES. 7th February 1857.

348. NICHOLAS NOMICO, of Manchester, in the County of Lancaster, and GEORGE HEYES, of Bury, in the said County, for an invention for—"Improvements in looms." *Letters Patent sealed and Specification filed, by order.*

LIMBERT. 7th February 1857.

349. JAMES ALFRED LIMBERT, Engineer, Royal Navy, for an invention for—"Improvements in marine steam-engines." *Provisional protection only.*

HADDAN. 7th February 1857.

350. JOHN COOPE HADDAN, of Cannon Row, Westminster, Civil Engineer, for an invention for—"Improvements in marine steam-engines."—*A communication.* *Provisional protection only.*

CRICKMAY. 7th February 1857.

351. CHARLES CRICKMAY, Gun Manufacturer, of Guildford Place, Lower Kennington Lane, London, for an invention for—"Certain improvements in breech-loading guns or pistols for military and other purposes, and which said improvements are applicable and will admit of being applied to guns or pistols now in use." *Letters Patent sealed.*

WRIGLEY. 7th February 1857.

352. FRANCIS WRIGLEY, of Manchester, in the County of Lancaster, Engineer, for an invention for—"An improved apparatus for cutting tobacco." *Provisional protection only.*

JOHNSON. 7th February 1857.

353. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of 166, Buchanan Street, in the City of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in casting metals."—*A communication from Messrs. Jackson Brothers, Petin, Gaudet and Company, of Rive de Gier, in the Empire of France, Iron Manufacturers.* *Letters Patent sealed.*

CADIAT. 7th February 1857.

354, JOSEPH NICOLAS VICTOR CADIAT, of Paris, Engineer in the Imperial Navy, for an invention for—"The application of centrifugal force in purifying minerals or any other similar hard substances, by washing." *Letters Patent sealed.*

SKERTCHLY. 7th February 1857.

355. JOSEPH SKERTCHLY, of Culford Road, De Beauvoir Square, in the County of Middlesex, Engineer, for an invention for—"Improvements in and in the manufacture of saggers." *Letters Patent sealed.*

GREENSLADE. WOOD. 7th February 1857.

356. WILLIAM GREENSLADE, of the City of Bristol, of the firm of Edward Acraman Greenslade and William Greenslade, of Bristol aforesaid, Brush Makers, and JAMES WOOD, of Saint Pancras, in the County of Middlesex, Working Brush Maker, for an invention for—"Certain improvements in brushes, especially applicable to painters' brushes." *Letters Patent sealed.*

TAYLOR. OWEN. 7th February 1857.

357. JAMES TAYLOR, of Upper Street, Islington, in the County of Middlesex, Chemist, and EDWARD OWEN, of Aberdeen Terrace, Blackheath, in the County of Kent, Chemist, for an invention for—"Improvements in the manufacture of yellow prussiate of potass." *Provisional protection only.*

BAUWENS. 7th February 1857.

358. FELIX LIEVEN BAUWENS, of Ranelagh Road, in the County of Middlesex, Manager of Bauwens' Patent Candle Company, for an invention for—"An improved mode of treating and distilling fatty matters, and in the apparatus employed therein." *Letters Patent sealed.*

BROWN. PARRY. 7th February 1857.

359. THOMAS BROWN, of Ebbw Vale, in the County of Monmouth, Iron Master, and GEORGE PARRY, of the same place, Furnace Manager, for an invention for—"Improvements in the manufacture of iron." *Letters Patent sealed; no specification filed.*

BROOMAN. 7th February 1857.

360. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, Patent Agent, for an invention for—"An improved method of obtaining motive-power."—*A communication from Gregoire Russo.* *Letters Patent sealed.*

BROOMAN. 7th February 1857.

361. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, Patent Agent, for an invention for—"Improvements in measuring the capacity and contents of casks and other similar vessels, and in instruments or apparatus employed therein."—*A communication.* *Letters Patent sealed.*

BOUSFIELD. 7th February 1857.

362. GEORGE TOMLINSON BOUSFIELD, of Sussex Place, Loughborough Road, Brixton, in the County of Surrey, for an invention for—"Improvements in lamps adapted for burning resin oil."—*A communication from Diederich Fehrman and Friederich Benkler.* *Provisional protection only.*

HIRST. 7th February 1857.

363. WILLIAM HIRST, of Bath, for an invention for—"Improvements in manufacturing felted fabrics." *Provisional protection only.*

WILKENS. 7th February 1857.

364. WILLIAM WILKENS, Manufacturer, of Baltimore, United States of America, and now of 4, South Street, Finsbury, London, for an invention for—"An improved cannon which he calls a revolving battery."—*A communication from E. Ames, of Baltimore, United States.* *Letters Patent sealed.*

PARSONS. 7th February 1857.

365. PERCEVAL MOSES PARSONS, of Duke Street, Adelphi, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in the permanent way of railways." *Letters Patent sealed.*

MURDOCH. 9th February 1857.

366. JAMES MURDOCH, of 7, Staple Inn, in the County of Middlesex, Patent Agent, for an invention for—"An improvement in the process of treating the threads of floss silk, which is also applicable to the threads of other fibrous materials."—*A communication from Gabriel Armand, of Lyons.* *Letters Patent sealed.*

TAYLOR. 9th February 1857.

367. JAMES TAYLOR, of the Britannia Works, Birkenhead, in the County of Chester, Engineer, for an invention for—"Improvements in machinery for crushing various substances." *Provisional protection only.*

CARTWRIGHT. 9th February 1857.

368. HENRY CARTWRIGHT, of the Dean Broseley, in the County of Shropshire, for an invention for—"Improvements in the application and mode of working excentrics on steam-engines." *Letters Patent sealed.*

TURNER. WATERMANN. 9th February 1857.

369. CHARLES TURNER, of Liverpool, in the County of Lancaster, Hat Manufacturer, and LOUIS WATERMANN, of the same place, Cap Manufacturer, for an invention for—"Improvements in or applicable to the class of hats made from straw grass, palm leaf, or other like materials." *Letters Patent sealed.*

TALABOT. 9th February 1857.

370. LÉON TALABOT, of No. 57, Chaussée d'Antin, Paris, Gentleman, for an invention for—"Improvements in the manufacture of iron and steel." *Letters Patent sealed.*

FENN. 9th February 1857.

371. JOSEPH FENN, of Newgate Street, in the City of London, Tool Manufacturer, for an invention for—"An improvement in oil-cans and other like vessels."—*A communication.* *Provisional protection only.*

FALCONER. 9th February 1857.

372. DAVID FALCONER, Wright, residing at 68, Causeyside, Paisley, in the County of Renfrew, for an invention for—"Improvements in the mechanical arrangement for raising and forcing of water or other fluid, air, or gases." *Letters Patent sealed.*

HARDING. 9th February 1857.

373. JOHN HARDING, of Beeston Manor Iron Works, Leeds, in the County of York, for an invention for—"Improvements in the treatment of metallic ores." *Letters Patent sealed.*

TAYLOR. 9th February 1857.

374. THOMAS JOHN TAYLOR, of Sekforde Street, Clerkenwell, in the County of Middlesex, Jewel Case Maker, for an invention for—"An improved construction of stereoscope." *Provisional protection only.*

GROVES. 9th February 1857.

375. SAMUEL GROVES, of Judd Place East, in the County of Middlesex, Organ Builder, for an invention for—"Improvements in organs." *Provisional protection only.*

WILLIS. 9th February 1857.

376. HENRY WILLIS, of Manchester Street, Gray's Inn Road, in the County of Middlesex, Organ Builder, for an invention for—"Improvements in organs." *Letters Patent sealed.*

WALKER. 10th February 1857.

377. WILLIAM THOMAS WALKER, of 55, King Square, in the Parish of St. Luke, in the County of Middlesex, Civil Engineer, for an invention of—"Improvements in apparatus used in gas works for exhausting, forcing, transmitting, and regulating the flow of gas, and cleansing and warming gas apparatus." *Letters Patent sealed.*

STOKES. 10th February 1857.

378. ABEL STOKES, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"New or improved machinery to be used in the manufacture of nails, pins, screws and other similar articles." *Letters Patent sealed.*

BERNARD. 10th February 1857.

379. JULIAN BERNARD, of the Albany, Piccadilly, in the County of Middlesex, Gentleman, for an invention for—"Improvements in the manufacture or production of boots and shoes or coverings for the feet, and in the machinery or apparatus employed in such manufacture." *Letters Patent sealed.*

HERTS. 10th February 1857.

380. DANIEL BENJAMIN HERTS, of Bunhill Row, in the County of Middlesex, Merchant, for an invention for—"Improvements in apparatus for stamping and embossing."—*A communication.* *Provisional protection only*

OWRID.
10th February 1857.

381. BENJAMIN WEBSTER OWRID, of Dundalk, in the County of Louth, Engineer, for an invention for—"An improved method of connecting and disconnecting pipes or tubes." *Letters Patent sealed; no specification filed.*

GRAHAM.
SHEPHERD.
WHITAKER.
10th February 1857.

382. JOSEPH GRAHAM, and JAMES SHEPHERD, both of Burnley, in the County of Lancaster, Machine Makers, and THOMAS WHITAKER, of Accrington, in the same County, Manufacturer, for an invention for—"Certain improvements in power looms for weaving." *Letters Patent sealed.*

MORGAN.
10th February 1857.

383. JABEZ MORGAN, Iron Wire Drawer, of Kidderminster, in the County of Worcester, for an invention for—"Certain Improvements in the manufacture of steel and iron wire for umbrella and parasol frames." *Provisional protection only.*

HODGES.
10th February 1857.

384. WILLIAM RICHELIEU HODGES, of the City of Manchester, in the County of Lancaster, Merchant, for an invention for—"Improvements in the manufacture of an elastic material and of its application to certain purposes."—*Provisional protection only.*

CHAMBERS.
CHAMPION.
10th February 1857.

385. AUSTIN CHAMBERS, of Canterbury, and WILLIAM HARRISON CHAMPION, of Lynsted, Kent, for an invention for—"A mode of working railway breaks." *Letters Patent sealed.*

BEDSON.
10th February 1857.

386. GEORGE BEDSON, of Manchester, in the County of Lancaster, Manager, for an invention for—"Improvements in coating metal with metal and metallic compounds." *Letters Patent sealed.*

PARTZ.
10th February 1857.

387. AUGUST FREDERICK WILLIAM PARTZ, of the City and State of New York, in the United States of America, for an invention for—"An improved method of evaporating fluids, condensing and absorbing vapours, gases and fumes, arresting and precipitating flocculent metallic or other particles, and transferring heat from air or steam to fluids and pulverulent substances." *Letters Patent sealed.*

JOHNSON.
WILLIAMS.
10th February 1857.

388. THOMAS FIELDING JOHNSON, of Leicester, Spinner, and JOHN WILLIAMS, of Leicester, Mechanic, for an invention for—"Improvements in screw gill machinery for preparing wool and other fibrous materials." *Letters Patent sealed.*

WATSON.
10th February 1857.

389. JOHN FORREST WATSON, of St. John's Square, Clerkenwell, in the County of Middlesex, for an invention for—"Improvements in the construction of watches." *Letters Patent sealed.*

BRIDGWOOD.
10th February 1857.

390. JESSE BRIDGWOOD, of Burslem, Staffordshire Potteries, for an invention for—"Improvements in connecting pipes to the basins of waterclosets and wash-hand basins, and also in the means of stopping the outlets of wash-hand basins." *Provisional protection only.*

PILCHER.
10th February 1857.

391. WILLIAM WOOD PILCHER, of St. Margaret's at Cliff, Dover, for an invention for—"Improvements in straw shakers of thrashing-machines."—*Letters Patent sealed.*

ROYDS.
KENYON.
10th February 1857.

392. ABRAHAM ROYDS, Carder, and JOHN KENYON, Overlooker, both of Lower Place, Rochdale, in the County of Lancaster, for an invention for—"Certain improvements or a certain improvement in machines for spinning or doubling commonly known as throstles." *Letters Patent sealed.*

BROOMAN.
10th February 1857.

393. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, Patent Agent, for an invention for—"An improvement in or addition to the locks of fire-arms."—*A communication from J. B. Longa.* *Provisional protection only.*

HOWARD.
10th February 1857.

394. THOMAS HOWARD, of King and Queen Iron Works, Rotherhithe, in the County of Surrey, Engineer, for an invention for—"Improvements in the construction of cranked shafts or axles." *Letters Patent sealed.*

HEALD.
HEALD.
10th February 1857.

395. HENRY HEALD, of Sabden, Whalley, in the County of Lancaster, Cotton Manufacturer, and ARTHUR HEALD, of the same place, Manager, for an invention for—"Improvements in pickers and picker checks employed in weaving." *Letters Patent sealed.*

ROPES.
THOMAS.
10th February 1857.

396. HENRY TIBBETS ROPES, of Liverpool, in the County of Lancaster, Ice Merchant, and DAVID WILSON THOMAS, of the same place, Brass Founder, for an invention for—"Improvements in the application of filters to cocks, taps, or other valves used to draw off liquids."—*A communication.* *Provisional protection only.*

PITMAN.
11th February 1857.

397. JOHN TALBOT PITMAN, of the American and European Patent Offices, 67, Gracechurch Street, London, for an invention for—"Improvements in the mode of making metallic hames for horses."—*A communication from a Citizen of the United States of America.* *Letters Patent sealed.*

PITMAN.
11th February 1857.

398. JOHN TALBOT PITMAN, of the American and European Patent Offices, 67, Gracechurch Street, London, for an invention for—"An improved system of working metallic ores and their products both metallic and mineral."—*A communication from a Citizen of the United States of America.* *Letters Patent sealed.*

DANDRAUT.
11th February 1857.

399. ACHILLE CONSTANTIN DANDRAUT, of 19, Rue Neuve des Petits Champs, Paris, in the Empire of France, but now residing at the Hotel de l'Univers, 20, Earl Street, Blackfriars Road, in the County of Surrey, for an invention for—"Preserving organized animal and vegetable matters, especially alimentary substances." *Provisional protection only.*

TODD.
TODD.
11th February 1857.

400. WILLIAM TODD, and JACOB TODD, of Heywood, in the County of Lancaster, Spinners and Manufacturers, for an invention for—"Certain improvements in power looms for weaving." *Letters Patent sealed.*

ARMSTRONG.
11th February 1857.

401. WILLIAM GEORGE ARMSTRONG, of Newcastle-upon-Tyne, in the County of Northumberland, Civil Engineer, for an invention for—"Improvements in ordnance." *Provisional protection only.*

KAY.
11th February 1857.

402. RICHARD DUGDALE KAY, of Accrington, in the County of Lancaster, Manufacturer, for an invention for—"An improved method of using or applying a certain colouring matter, either singly or in combination, with other colouring matters, to woven or felted fabrics, yarns or threads, either in the white or dyed state."—*A communication.* *Letters Patent sealed.*

POOLE.
11th February 1857.

403. JOHN POOLE, of Number 2, Riley Street, Chelsea, in the County of Middlesex, Engineer, for an invention for—"Improvements in safety or other valves and in mechanical appliances thereto." *Letters Patent sealed.*

MACINTOSH.
11th February 1857.

404. JOHN MACINTOSH, of Euston Square, in the County of Middlesex, for an invention for—"Improvements in the manufacture and discharge of projectiles." *Letters Patent sealed.*

HENDY.
11th February 1857.

405. JAMES SAUL HENDY, of Essex Street, Strand, in the County of Middlesex, Butler to the Honorable Society of the Inner Temple, for an invention for—"Improvements in chimney tops or cowls." *Provisional protection only.*

POTTS.
11th February 1857.

406. GEORGE CHAPPELL POTTS, of New Oxford Street, in the County of Middlesex, Cooper, for an invention for—"Improvements in cleansing casks." *Letters Patent sealed.*

HORTON.
12th February 1857.

407. JOSHUA HORTON, Junior, of Brierley Hill, in the County of Stafford, Manufacturer, for an invention for—"New or improved machinery for regulating the generation and pressure of steam in steam-boilers and for preventing the explosion of steam-boilers." *Letters Patent sealed.*

LANGFORD.
WILDER.
12th February 1857.

408. JOHN LANGFORD, of Birmingham, in the County of Warwick, Manufacturer, and JOSEPH WILDER, of Birmingham aforesaid, Pyrotechnic Artist, for an invention for—"A new or improved signal and alarum." *Provisional protection only.*

ADAMS.
12th February 1857.

409. WILLIAM BRIDGES ADAMS, of No. 1, Adam Street, Adelphi, in the County of Middlesex, Engineer, for an invention for—"Improvements in buildings and other structures." *Provisional protection only.*

DESVIGNES.
12th February 1857.

410. PETER HUBERT DESVIGNES, of Lewisham, in the County of Kent, for an invention for—"Improvements in machinery for preparing flax, hemp, and other fibrous materials." *Letters Patent sealed.*

BAKER.
12th February 1857.

411. DAVID BAKER, of the Gisbro' Alum Works, Yorkshire, for an invention for—"Improvements in the manufacture of compounds of alumina and of magnesia." *Letters Patent sealed.*

TURNER.
BOYENS.
12th February 1857.

412. THOMAS TURNER, of Grosvenor Street, Commercial Road East, and HENRY BOYENS, of George Street, Commercial Road East, for an invention for—"Improvements in apparatus for steering ships and vessels, and in apparatus for communicating or signalling between the deck and engine room of steam-vessels." *Provisional protection only.*

WILKENS.
12th February 1857.

413. WILLIAM WILKENS, of Camberwell, in the County of Surrey, Builder, for an invention for—"Improvements in flushing apparatus." *Provisional protection only.*

BLACKBURN.
BLACKBURN.
12th February 1857.

414. ISAAC BLACKBURN, of Islington, in the County of Middlesex, Engineer, and ROBERT BLACKBURN, of the City of Edinburgh, Engineer, for an invention for—"Improvements in engines or implements to be employed in agriculture, applicable also to the transporting of heavy bodies, to the traction of carriages, and to the conveyance of passengers." *Letters Patent sealed.*

MAYNARD.
12th February 1857.

415. EDWARD MAYNARD, of Brooklyn, in the County of Kings, and State of New York, United States of America, for an invention for—"An improvement in calks for the shoes of animals." *Provisional protection only.*

NEWTON.
12th February 1857.

416. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improved machinery for turning articles of irregular forms in the direction of their length."—*A communication.* *Letters Patent sealed.*

NEWTON,
12th February 1857.

417. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improved machinery for cutting metals or other hard substances."—*A communication.* *Provisional protection only.*

BOWCOCK.
12th February 1857.

418. ELIAS BOWCOCK, of Manchester, in the County of Lancaster, Manager, for an invention for—"Certain improvements in the manufacture of cords to be used in skirts and petticoats." *Provisional protection only.*

GIMSON.
12th February 1857.

419. GEORGE GIMSON, of Staley Bridge, in the County of Lancaster, Engineer, for an invention for—"Certain improvements in steam-engines." *Letters Patent sealed.*

WINGATE.
12th February 1857.

420. THOMAS WINGATE, of Glasgow, in the County of Lanark, North Britain, Engineer, for an invention for—"Improvements in screw propellers and in adjusting the same." *Letters Patent sealed.*

WILLIAMS.
13th February 1857.

421. CHARLES WYE WILLIAMS, of Liverpool, in the County Palatine of Lancaster, Gentleman, for an invention for—"Improvements in increasing the draft and promoting the combustion of the fuel in furnaces." *Letters Patent sealed; no specification filed.*

CROSSLEY.
LEEMING.
CROSSLEY.
13th February 1857.

422. CHARLES CROSSLEY, DAN LEEMING, and JOHN CROSSLEY, all of Halifax, in the County of York, Machine Makers, for an invention for—"Improvements in apparatus for heating, and in taps to be employed in combination therewith, which taps are also applicable for general purposes." *Letters Patent sealed.*

HARRISON.
13th February 1857.

423. WILLIAM HARRY HARRISON, of Ty Mawr, Ponty Pridd, Glamorganshire, Engineer, for an invention for—"Certain improvements in the machinery or apparatus as at present employed for raising water from mines." *Provisional protection only.*

RICHARDSON.
13th February 1857.

424. WILLIAM RICHARDSON, of No. 5, Ranelagh Grove, Pimlico, in the County of Middlesex, for an invention for—"Improvements in the use of iron or any other metal, by itself or in combination with other materials for structural purposes." *Letters Patent sealed.*

SYKES.
13th February 1857.

425. FREDERIC HENRY SYKES, of Cock Street, Piccadilly, Esquire, for an invention for—"An improved apparatus for supplying or feeding boilers with water, applicable to raising and forcing liquids for other purposes." *Letters Patent sealed.*

LAMB.
13th February 1857.

426. DAVID ALEXANDER LAMB, of Berwick-upon-Tweed, for an invention for—"Improvements in waterclosets and in apparatus connected therewith." *Letters Patent sealed.*

CLARK.
13th February 1857.

427. WILLIAM STETTINIUS CLARK, of High Holborn, in the County of Middlesex, for an invention for—"Improvements in machines for grating substances."—*A communication.* *Provisional protection only.*

MAPPIN.
13th February 1857.

428. WALTER SANDELL MAPPIN, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"A new or improved method of constructing doors and windows for the prevention of burglary, which method of construction is also applicable to other articles where strength is required." *Provisional protection only.*

SMITH.
13th February 1857.

429. NOEL CLAYTON SMITH, of Churton Street, Pimlico, in the County of Middlesex, Clerk, for an invention for—"Improvements in the disc engine."
Letters Patent sealed.

HALLETT.
13th February 1857.

430. MARMADUKE WILLIAM HALLETT, of St. George's Road, Eccleston Square, in the County of Middlesex, for an invention for—"Improvements in apparatus for securing window and other openings in buildings." *Letters Patent sealed.*

LAWSON.
COTTON.
13th February 1857.

431. JOHN LAWSON, and STEPHEN COTTON, of Leeds, in the County of York, for an invention for—"Improvements in machinery for roving, spinning or twisting flax, cotton, wool, and other fibrous substances." *Letters Patent sealed.*

HARDSTAFF.
13th February 1857.

432. GEORGE HARDSTAFF, of Skegby Colliery, near Mansfield, Engineer, for an invention for—"Improvements in apparatus for actuating and applying the breaks of carriages used on railways, and for coupling such carriages." *Letters Patent sealed.*

HOUCHIN.
13th February 1857.

433. RICHARD HOUCHIN, junior, of Bridport Place, New North Road, Hoxton, Engineer, for an invention for—"Improvements in alarums." *Letters Patent sealed.*

ROBOTTOM.
13th February 1857.

434. TITUS ROBOTTOM, of Atherstone, in the County of Warwick, Engineer, for an invention for—"Improvements in locomotive engines chiefly adapted for the purposes of common road or street traction and the working of agricultural implements." *Provisional protection only.*

COCKER.
13th February 1857.

435. JAMES COCKER, of Liverpool, in the County of Lancaster, Wire Drawer, for an invention for—"Improvements in and apparatus for the manufacture of wire, part of which improvements is applicable to the annealing of other metallic articles."
Letters Patent sealed.

WILLIAMS.
13th February 1857.

436. JOHN WILLIAMS, of Port Madoc, in the County of Carnarvon, North Wales, Ship Smith, for an invention for—"Improvements in apparatus for lowering and stopping anchor chains on board ships and for other similar purposes."
Provisional protection only.

WALKER.
14th February 1857.

437. ANDREW BARCLAY WALKER, of Liverpool, in the County of Lancaster, Wine and Spirit Merchant, for an invention for—"An improved apparatus for heating fluids." *Letters Patent sealed.*

FULTON.
ETTY.
14th February 1857.

438. HAMILTON HENRY FULTON, of 8, Great Queen Street, Westminster, in the County of Middlesex, and THOMAS BODLEY ETTY, of 8, Great Queen Street, Westminster, in the County of Middlesex, for an invention for—"Improvements in the generation and application of steam power for propelling, hauling, driving, or conveying, particularly applicable to farming purposes." *Provisional protection only.*

FORREST.
14th February 1857.

439. ALEXANDER FORREST, of Birmingham, in the County of Warwick, Gentleman, for an invention for—"Improvements in the construction and ornamentation of belt or band fastenings and other dress fastenings." *Provisional protection only.*

CRUIKSHANK.
14th February 1857.

440. JOHN CRUIKSHANK, of Prince's End, near Tipton, in the County of Stafford, Roller, for an invention for—"An improvement or improvements in rolling iron and steel wire." *Letters Patent sealed.*

FIRTH.
CRABTREE.
14th February 1857.

441. JOSIAH FIRTH, of Flush Mills, Heckmondwike, in the County of York, Manufacturer, and JOSEPH CRABTREE, of Mill Bridge, in the same County, Machine Maker, for an invention for—"Improvements in power looms for weaving fancy goods." *Letters Patent sealed.*

SMITH.
14th February 1857.

442. ARCHIBALD SMITH, of Prince's Street, in the County of Middlesex, Engineer, for an invention for—"Improvements in machinery for the manufacture of wire rope and other ropes." *Letters Patent sealed.*

TAYLOR.
14th February 1857.

443. JAMES TAYLOR, of Upper Street, Islington, in the County of Middlesex, Chemist, for an invention for—"Improvements in the preparation or manufacture of manures." *Letters Patent sealed.*

MOATE.
14th February 1857.

444. CHARLES ROBERT MOATE, of 65, Old Broad Street, in the City of London, Metal Broker, for an invention for—"Improvements in the permanent way of railways." *Provisional protection only.*

COOKE.
14th February 1857.

445. WILLIAM COOKE, of Cornhill, in the City of London, for an invention for—"Improvements in apparatus for ventilating." *Letters Patent sealed.*

LETESTU.
16th February 1857.

446. JEAN MARIE LETESTU, Mechanician, of Paris, in the French Empire, for an invention for—"Improvements in signals." *Provisional protection only.*

JACKSON.
16th February 1857.

447. WILLIAM ROBINSON JACKSON, of Baltimore in the State of Maryland, and United States of America, for an invention for—"An improved railway-break."
Letters Patent sealed.

NEWTON.
16th February 1857.

448. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane in the County of Middlesex, Civil Engineer, for an invention for—"Improved machinery for manufacturing nuts and washers."—*A communication.*
Letters Patent sealed.

CRAWLEY.
16th February 1857.

449. JOHN CRAWLEY the elder, of the firm of Crawley and Son, of Wood Street, Cheapside, in the City of London, Collar Manufacturer, for an invention for—"Improvements in collars and wristbands.". *Provisional protection only.*

NEWCOMB.
16th February 1857.

450. THOMAS NEWCOMB, of 10, Cowley Place, Commercial Road, Peckham, in the County of Surrey, Machinist, for an invention for—"Improvements in machinery for manufacturing nails." *Letters Patent sealed.*

WILEY.
16th February 1857.

451. WILLIAM EDWARD WILEY, of 34, Great Hampton Street, Birmingham, Pen and Pencil Manufacturer, for an invention for—"Improvements in the manufacture of metal pens and penholders." *Letters Patent sealed.*

QUICK.
FRASER.
16th February 1857.

452. JOSEPH QUICK, junior, and ALEXANDER FRASER, both of Sumner Street, Southwark, for an invention for—"Improvements in apparatus for regulating the drawing off and the supply of water and other fluids." *Letters Patent sealed.*

PARKES.
16th February 1857.

453. ALEXANDER PARKES, of 8, Bath Row, Birmingham, for an invention for—"Improvements in the manufacture of nails." *Letters Patent sealed.*

JOHNSON.
16th February 1857.

454. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of 166, Buchanan Street, in the City of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in machinery or apparatus for the manufacture of pasteboard."—*A communication.* *Letters Patent sealed.*

CLARK.
16th February 1857.

455. WILLIAM CLARK, of 53, Chancery Lane, in the County of Middlesex, Engineer, for an invention for—"Improvements in the manufacture of railway chairs."—*A communication.* *Letters Patent sealed.*

BALL.
17th February 1857.

456. THOMAS BALL, of No. 3, Hyde Street, in the Parish of Saint George, Bloomsbury, in the County of Middlesex, for an invention for—"An improved portable oven for baking bread and other articles of food, in the camp, the field, or the house." *Letters Patent sealed.*

GREEN.
17th February 1857.

457. HENRY GREEN, of Liverpool, in the County of Lancaster, Whitesmith and Ironmonger, for an invention for—"An improved stove to be heated by gas."
Provisional protection only.

COWPER.
17th February 1857.

458. CHARLES COWPER, of 20, Southampton Buildings, Chancery Lane, in the County of Middlesex, Patent Agent, for an invention for—"Improvements in making drains, and in machinery for that purpose."—*A communication.*—*Letters Patent sealed.*

GOODMAN.
17th February 1857.

459. JOHN GOODMAN, Gentleman, of 29a, Pall Mall, in the Parish of Saint James', and the County of Middlesex, for an invention for—"Improvements in apparatus for holding together letters, music, and other loose sheets."—*A communication.*
Letters Patent sealed.

BURSLEM.
BURSLEM.
17th February 1857.

460. WILLIAM BURSLEM, and JOHN BURSLEM, of Cheadle, in the County of Chester, Picker Manufacturers, for an invention for—"An improved "picker" to be used in power looms for weaving." *Provisional protection only.*

BENNETT.
17th February 1857.

461. JOHN BENNETT, of Birmingham, in the County of Warwick, Press Tool Maker, for an invention for—"A new or improved joint for fishing rods, the rods or handles of parasols, and for other rods." *Provisional protection only.*

WITHNALL.
17th February 1857.

462. THOMAS WITHNALL, of the City of Manchester, in the County of Lancaster, for an invention for—"Improvements in the manufacture of copper, brass, or other metallic rollers or cylinders." *Provisional protection only.*

ALCAN.
17th February 1857.

463. EMILE ALCAN, of Fore Street, in the City of London, Merchant, for an invention for—"Improvements in machinery for twisting, doubling, and spinning cotton, silk, and other fibrous materials."—*A communication.* *Letters Patent sealed.*

BARBER.
17th February 1857.

464. HARBY BARBER, of Belgrave, in the County of Leicester, Manufacturer, for an invention for—"Improvements in knitting machinery." *Letters Patent sealed.*

PASCAL.
17th February 1857.

465. JEAN BAPTISTE PASCAL, of Lyons, France, Civil Engineer, for an invention for—"An improved engine with rotary piston applicable to various purposes."
Letters Patent sealed.

KALTWASSER.
17th February 1857.

466. AUGUSTUS KALTWASSER, of No. 5, Grove Street, Camden Town, in the County of Middlesex, Pianoforte Maker, for an invention for—"An improvement in the action of horizontal pianofortes." *Provisional protection only.*

HOUGHTON.
17th February 1857.

467. FREDERICK BURNETT HOUGHTON, of Upper Gloucester Place, Dorset Square, in the County of Middlesex, for an invention for—"Improvements in the preparation of materials used in the manufacture of paper." *Letters Patent sealed.*

COOLEY.
17th February 1857.

468. ROBERT BARLOW COOLEY, of Nottingham, for an invention for—"An improvement in the manufacture of knitted fabrics." *Letters Patent sealed.*

YOUNG.
17th February 1857.

469. WILLIAM YOUNG, of Queen Street, in the City of London, Patent Vesta Lamp Manufacturer, for an invention for—"Improvements in fireplaces or stoves."
Provisional protection only.

NAYLOR.
17th February 1857.

470. JOHN NAYLOR, of Winterton, near Brigg, Lincolnshire, for an invention for—"Improvements in horse hoes." *Letters Patent sealed.*

DE BERGUE.
18th February 1857.

471. CHARLES DE BERGUE, of Dowgate Hill, in the City of London, Engineer, for an invention for—"Certain improvements in marine steam-engines."
Provisional protection only.

GREEN.
18th February 1857.

472. JACOB GREEN, of the City of Philadelphia, State of Pennsylvania, United States, for an invention for—"Improvements in furnaces for burning combustible gases under pressure, in the manufacture of glass, iron, and other metals."
Letters Patent sealed.

CHRISTIE.
18th February 1857.

473. HECTOR CHRISTIE, of Salford, in the County of Lancaster, Cotton Doubler, for an invention for—"Improvements in finishing and polishing threads and yarns."
Letters Patent sealed.

BEST.
18th February 1857.

474. ROBERT BEST, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"An improvement or improvements in illumination."
Letters Patent sealed.

RYLANDS.
18th February 1857.

475. JOHN RYLANDS, of Warrington, in the County of Lancaster, Wire Manufacturer, for an invention for—"Improvements in annealing wire."
Provisional protection only.

BLANC.
18th February 1857.

476. JULIAN BLANC, of No. 59, Rue St. Louis, Batignolles, near Paris, for an invention for—"Improvements in making bread and biscuits."—*A communication from Pierre Hanns and Louis Girard.* *Letters Patent sealed.*

DAVENPORT.
COLE,
18th February 1857.

477. THOMAS WILLIAM DAVENPORT, of Ormond Street, Birmingham, in the County of Warwick, and SAMUEL COLE, of Wilton Street, Aston Manor, in the County of Warwick, for an invention for—"A new or improved method of manufacturing and ornamenting articles in papier mâché and charcoal."
Letters Patent sealed.

MOULE.
18th February 1857.

478. JOHN MOULE, of Seabright Place, Hackney Road, in the County of Middlesex, Manufacturing Chemist, for an invention for—"Improved apparatus to be used for burning pyrotechnic compositions or preparations for producing artificial lights of various colours." *Letters Patent sealed.*

CHEETHAM.
18th February 1857.

479. DAVID CHEETHAM, of Rochdale, in the County of Lancaster, Machinist, for an invention for—"Improvements in machinery or apparatus for preparing, spinning, and reeling cotton and other fibrous materials." *Letters Patent sealed.*

DYER.
18th February 1857.

480. SAMUEL DYER, of the City of Bristol, Ship Owner, for an invention for—"Certain improvements in ships' windlasses, capstans, bumpkins, gins, and cranes."
Letters Patent sealed.

FOUCHER.
18th February 1857.

481. LOUIS LÉON FOUCHER, of 5, Petit Rue Taranne, at Paris, in the Empire of France, Engineer, for an invention for—"Improvements in apparatus for the manufacture of type and other articles used in letter-press printing."
Letters Patent sealed.

WILKS. 19th February 1857.

482. LOT WILKS, of 18, Bedford Row, in the County of Middlesex, Messenger, for an invention for—"An apparatus for signalling between the guards and engine drivers on railway trains, which is also applicable to other similar purposes." *Provisional protection only.*

MEAKIN. 19th February 1857.

483. GEORGE FREDERICK LEE MEAKIN, of No. 40, Albion Street, Hyde Park, in the County of Middlesex, Surveyor and Civil Engineer, for an invention for—"An improved method of applying breaks to railway carriages." *Letters Patent sealed.*

PRICE. 19th February 1857.

484. DAVID LLOYD PRICE, of Beaufort, in the County of Brecknock, Electrical Engineer, for an invention for—"Improvements in electric apparatus for giving signals, and appliances connected therewith." *Letters Patent sealed.*

HALSALL. HAYHURST. 19th February 1857.

485. WILLIAM HALSALL, and WILLIAM HAYHURST, both of Bury, in the County of Lancaster, Machine Makers, for an invention for—"An improved self-acting 'temple' to be employed in power looms for weaving." *Provisional protection only.*

ABERNETHY. 19th February 1857.

486. JAMES ABERNETHY, of Westminster, in the County of Middlesex, Civil Engineer, for an invention for—"An improved mode of constructing breakwaters in deep water." *Provisional protection only.*

CROOK. 19th February 1857.

487. JAMES CROOK, of Winckworth Place, Hoxton, in the County of Middlesex, for an invention for—"Improvements in looms for weaving elastic and other fabrics." *Letters Patent sealed.*

CLAYTON. 19th February 1857.

488. THOMAS CLAYTON, of the City of Manchester, in the County of Lancaster, Machinist, for an invention for—"Improvements in machinery or apparatus for ornamenting and embossing wood, leather, paper, and other similar materials." *Letters Patent sealed.*

CLARK. 19th February 1857.

489. WILLIAM CLARK, of 53, Chancery Lane, in the County of Middlesex, Engineer, for an invention for—"Improvements in the manufacture of sheet glass.—*A communication.* *Letters Patent sealed.*

LORD. SOOTHILL. 19th February 1857.

490. JAMES LORD, of No. 2, Brierly Street, within the Borough of Rochdale, Engineer, and WILLIAM SOOTHILL, of Stock Road, in the Parish of Rochdale, Engineer, for an invention for—"Improvements in steam-boilers for the more effectual consumption of smoke, whereby a great saving of coal will be effected." *Provisional protection only.*

SCOTT. 19th February 1857.

491. HENRY YOUNG DARRACOTT SCOTT, of Brompton Barracks, near Chatham, in the County of Kent, Captain in the Royal Engineers, for an invention for—"An improved manufacture of cement." *Letters Patent sealed.*

CATO. BETTELEY. 19th February 1857.

492. PETER CATO, of Liverpool, in the County of Lancaster, Ship Builder, and JOSEPH BETTELEY, of Liverpool aforesaid, Anchor Manufacturer, for an invention for—"Improvements in the masts, yards, and spars for ships or sailing vessels." *Letters Patent sealed; no specification filed.*

OAKES. 20th February 1857.

493. WILLIAM OAKES, of Stockton-on-Tees, in the County of Durham, Furnace Manager, for an invention for—"Improvements in the manufacture of iron." *Letters Patent sealed.*

HELYER. 20th February 1857.

494. HENRY THOMAS HELYER, of Ryde, in the Isle of Wight, in the County of Southampton, Surveyor, for an invention for—"Improvements in the construction of bridges and arched structures." *Provisional protection only.*

EDWARDS. 20th February 1857.

495. EDWARD EDWARDS, of Abenbury Forge, Wrexham, in the County of Kent, Iron Master, for an invention for—"Improvements in the manufacture of chains for cables and other purposes." *Letters Patent sealed.*

GRIST. 20th February 1857.

496. JOHN GRIST, of Islington, in the County of Middlesex, Engineer, for an invention for—"Improvements in mash tuns and in apparatus to be employed therewith, which apparatus is also applicable to the heating and keeping up of a continuous circulation of liquids in any vessel to which it may be connected." *Provisional protection only.*

BROOMAN. 20th February 1857.

497. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, Patent Agent, for an invention for—"Improvements in steam digging apparatus suitable for draining and excavating purposes, parts of which are applicable to reaping."—*A communication.* *Provisional protection only.*

CROOK.
20th February 1857.

498. JOHN ROWLAND CROOK, of Birmingham, in the County of Warwick, Hat Manufacturer, for an invention for—"An improved material for and an improvement in the manufacture of hat tips, which material is also applicable to the manufacture of hat and other boxes or cases." *Letters Patent sealed.*

COMBE.
20th February 1857.

499. JOHN COMBE, of Leeds, in the County of York, Engineer, for an invention for—"Improvements in the construction and driving of power looms, in the formation of shuttles, and in the winding and arrangement of weft, parts of which improvements are applicable to other purposes." *Letters Patent sealed.*

JEUNE.
20th February 1857.

500. FREDERICK CHARLES JEUNE, of Gresham Street, in the City of London, India Rubber Manufacturer, for an invention for—"An improved manufacture of artificial leather." *Provisional protection only.*

GLOVER.
BOLD.
20th February 1857.

501. JOSEPH GLOVER, of Liverpool, Photographer, and JOHN BOLD, the younger, also of Liverpool aforesaid, in the County of Lancaster, Watch and Clock Maker, for an invention for—"Improvements consisting of extended uses of photography, as applied to dials, tablets, and pictures." *Letters Patent sealed.*

ZIPSER.
KLEIN.
20th February 1857.

502. WILHELM ZIPSER, and JOHANN PETER KLEIN, of Biala, in the Kingdom of Galicia, in the Empire of Austria, for an invention for—"Improved machinery or apparatus to be used in the manufacture of woollen cloth." *Letters Patent sealed.*

ALDEBERT.
20th February 1857.

503. ISAAC ALDEBERT, Coachmaker, 57, Long Acre, London, for an invention for—"An improved shackle for the springs of carriages." *Provisional protection only.*

ADLER.
21st February 1857.

504. ELKAN ADLER, of the City of New York, in the United States of America, at present residing at No. 133, High Holborn, in the County of Middlesex, for an invention for—"Improvements in spring bed bottoms, said bottoms being applicable to other descriptions of furniture." *Provisional protection only.*

BLAKELY.
21st February 1857.

505. ALEXANDER THEOPHILUS BLAKELY, of Tonbridge Wells, in the County of Kent, Captain R.A., for an invention for—"Improvements in ordnance." *Provisional protection only.*

ELCE.
HARTLEY.
21st February 1857.

506. JOHN ELCE, of the City of Manchester, Machinist, and SAMUEL HARTLEY, of the same place, Brass Moulder, for an invention for—"Improvements in machinery for moulding." *Provisional protection only.*

FIELDING.
21st February 1857.

507. JOSEPH FIELDING, of Ashton-under-Lyne, in the County of Lancaster, Machinist, for an invention for—"An improved apparatus applicable to steam pipes or cylinders used for heating and drying, which said apparatus may be similarly employed wherever steam is used for such purposes." *Provisional protection only.*

WHITEHEAD.
21st February 1857.

508. JOHN WHITEHEAD, of Preston, in the County of Lancaster, Agricultural Implement Maker, for an invention for—"Improvements in boilers." *Letters Patent sealed.*

THOMSON.
21st February 1857.

509. FRANCIS HAY THOMSON, of Glasgow, in the County of Lanark, North Britain, Doctor of Medicine, for an invention for—"Improvements in the manufacture of iron." *Letters Patent sealed.*

JOHNSON.
21st February 1857.

510. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of 166, Buchanan Street, in the City of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in spinning-machines."—*A communication from Joel Smith, of Northbridge, in the County of Worcester, in the State of Massachusetts, in the United States of America.* *Letters Patent sealed.*

BARBER.
21st February 1857.

511. JOHN BARBER, of the City of Manchester, in the County of Lancaster, Machinist, for an invention for—"Improvements in compound printing maundrills." *Letters Patent sealed.*

MIDDLETON.
STENT.
21st February 1857.

512. JOHN MIDDLETON, of Hyde, in the County of Chester, and WILLIAM STENT, of Fairfield, near Manchester, in the County of Lancaster, for an invention for—"Improvements in railway chairs, and in the jointing of rails for railways." *Letters Patent sealed.*

TURNER.
21st February 1857.

513. JOHN TURNER, of Syresham, in the County of Northampton, Baker, for an invention for—"Improvements in the process of manufacturing bread, and in the component parts of the same." *Letters Patent sealed.*

TOUCHE. 21st February 1857.

514. VICTOR TOUCHE, of 14, Rathbone Place, Oxford Street, in the County of Middlesex, Gentleman, for an invention for—"Improvements in the manufacture of paper from bass or bast." *Provisional protection only.*

WILLIAMS. 21st February 1857.

515. JOHN WILLIAMS, of Wigginton, in the County of Oxford, Clerk, for an invention for—"Improvements in common road vehicles." *Provisional protection only.*

GROUSE. 21st February 1857.

516. MICHAEL GROUSE, of 549, Oxford Street, in the County of Middlesex, for an invention for—"An improved apparatus for giving stability to life boats and other boats." *Letters Patent sealed.*

PHILLIPS. 21st February 1857.

517. GEORGE PHILLIPS, of Hammersmith, in the County of Middlesex, for an invention for—"Improvements in stationery cabinets, and in envelopes to be used therewith." *Provisional protection only.*

GOSSAGE. 21st February 1857.

518. WILLIAM GOSSAGE, of Widnes, in the County of Lancaster, Chemist, for an invention for—"Improvements in the manufacture of soda and potash." *Letters Patent sealed.*

QUIDDE. MAYET. 21st February 1857.

519. AUGUSTE QUIDDE, and CHARLES MAYET, both of Biala, in the Kingdom of Galicia, in the Empire of Austria, for an invention for—"Certain improvements in propelling." *Letters Patent sealed.*

WOOD. 23rd February 1857.

520. EDWARD ROBERT WOOD, of Stonthall, Swansea, Glamorganshire, Gentleman, for an invention for—"Improvements in labels." *Provisional protection only.*

FOOTMAN. 23rd February 1857.

521. WILLIAM FOOTMAN, of No. 24, Rodney Street, Pentonville, London, for an invention for—"Further utilising the illuminating properties of gas by improvements in burners and shades or reflectors." *Provisional protection only.*

BOURDIER. MASSELON. 23rd February 1857.

522. CHARLES ALEXIS BOURDIER, and VICTOR MASSELON, both at the Office for Patents, 4, Trafalgar Square, Charing Cross, in the County of Middlesex, for an invention for—"Improvements in obtaining and applying motive-power." *Provisional protection only.*

BANNISTER. 23rd February 1857.

523. JOSEPH JAMES BANNISTER, of Southwark, in the County of Surrey, Furniture Dealer, for an invention for—"An improved watch and property protector pocket." *Provisional protection only.*

BROWN. 23rd February 1857.

524. JAMES BROWN, of Aldgate, in the City of London, Chemist, for an invention for—"A method or methods of preparing paper to enable it to receive an impression from an engraved block or plate, type or other printing agent, while in a dry state." *Letters Patent sealed.*

LA CROIX. 23rd February 1857.

525. FRANCIS CONILIANE LA CROIX, of New York, United States of America, for an invention for—"An improvement in reducing and reefing the top sails of vessels." *Letters Patent sealed.*

DEVINCENZI. 23rd February 1857.

526. GIUSEPPE DEVINCENZI, of Maddox Street, in the County of Middlesex, Gentleman, for an invention for—"Improvements in producing figures and designs upon plates for printing from." *Letters Patent sealed.*

SHEARMAN. 23rd February 1857.

527. JAMES EDWARD SHEARMAN, of Pimlico, in the County of Middlesex, Esquire, for an invention for—"Improvements in saddles and collars for horses and other animals." *Letters Patent sealed.*

KIRKHAM. 23rd February 1857.

528. JOHN KIRKHAM, of Tonbridge Place, New Road, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in the construction of furnaces, ovens or kilns for drying, baking or burning pottery or earthenware, bricks, tiles or other similar articles, and in the means of collecting and condensing or carrying off the smoke, gases or vapours evolved from such or other furnaces or fire-places, or that escape or arise from the retorts and other parts of the apparatus used in the manufacture of gas." *Letters Patent sealed.*

NEWTON. 23rd February 1857.

529. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"An improved furnace for locomotive and other boilers."—*A communication.* *Letters Patent sealed.*

MURRAY. 23rd February 1857.

530. CHARLES HENRY MURRAY, of Oakley Cottages, Old Kent Road, in the County of Surrey, Machinist, for an invention for—"An improved construction of chain pump." *Letters Patent sealed.*

MAISSIAT. 23rd February 1857.

531. JACQUES HENRI MARIE MAISSIAT, of Paris, in the Empire of France, Chemist, for an invention for—"Improvements in dibbling machinery for depositing grain and manure." *Letters Patent sealed.*

KOCH. 23rd February 1857.

532. AIMÉ KOCH, of Belfast, of the firm of Ami Bernard and Koch, for an invention for—"Improvements in machinery for breaking and scutching flax, hemp and other fibrous substances." *Letters Patent sealed.*

LAUROT. 23rd February 1857.

533. LAURENT LAUROT, of No. 22, Rue Fontaine St. Georges, in the City of Paris, Chemist, for an invention for—"Separating the different solid fatty (acides gras) acids from the liquid fatty ones." *Provisional protection only.*

BARNETT. 23rd February 1857.

534. GEORGE BARNETT, of 102, Aldersgate Street, in the City of London, for an invention for—"Improvements in fasteners for parts of garments." *Letters Patent sealed.*

MILNES. THOMPSON. 23rd February 1857.

535. JOHN MILNES, of Sutton Mill, in the Parish of Kildwick, in the County of York, Overlooker, and WILLIAM THOMPSON, of Sutton Mill aforesaid, Mechanic, for an invention for—"Improvements in looms for weaving." *Letters Patent sealed.*

LATRUFFE. 24th February 1857.

536. CLAUDE FRANÇOIS LATRUFFE, of 39, Rue de l'Echiquier, Paris, in the Empire of France, and of No. 4, South Street, Finsbury, London, for an invention for—"Improvements in heating-apparatus." *Letters Patent sealed.*

BROOMAN. 24th February 1857.

537. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, Patent Agent, for an invention for—"Improvements in under skirts or petticoats."—*A communication.* *Letters Patent sealed.*

HAWKS. 24th February 1857.

538. STEPHEN WRIGHT HAWKS, of Gateshead Iron Works, Gateshead-upon-Tyne, in the County of Durham, Engineer, for an invention for—"Improvements in railway chairs." *Provisional protection only.*

BETTELEY. 24th February 1857.

539. JOSEPH BETTELEY, of Liverpool, in the County of Lancaster, Anchor Manufacturer, for an invention for—"Improvements in machinery for lifting and working anchors, cables, and other weights on shipboard. *Letters Patent sealed.*

ROBINSON. 24th February 1857.

540. JOSEPH ROBINSON, of Glasgow Terrace, Thames Bank, Pimlico, in the County of Middlesex, for an invention for—"Improvements in the stages used in greenhouses and hot houses." *Letters Patent sealed.*

PARKES. 24th February 1857.

541. ALEXANDER PARKES, of Birmingham, in the County of Warwick, Practical Chemist, for an invention for—"Improvements in separating tin from tin plate scrap, and tin or zinc from other surfaces of iron." *Letters Patent sealed.*

PULLAR. PULLAR. 24th February 1857.

542. JOHN PULLAR, and LAURENCE PULLAR, of Perth, North Britain, Manufacturers, for an invention for—"An improvement in the manufacture of umbrellas and parasols." *Provisional protection only.*

JOHNSON. 24th February 1857.

543. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of 166, Buchanan Street, in the City of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in fastenings for dress and other purposes."—*A communication from Hypolite Marie, of Paris, in the Empire of France.* *Letters Patent sealed.*

M'CALLAN. 24th February 1857.

544. GEORGE M'CALLAN, of Johnstone, in the County of Renfrew, North Britain, Gas Fitter, for an invention for—"Improvements in air and water discharge apparatus for steam pipes." *Letters Patent sealed.*

MITCHELL. 24th February 1857.

545. ALEXANDER MITCHELL, of Peterhead, in the County of Aberdeen, North Britain, Machinist, for an invention for—"Improvements in harpoon guns." *Letters Patent sealed.*

THORNTON. 24th February 1857.

546. JAMES THORNTON, of Belfast, in the County of Antrim, Ireland, Civil Engineer, for an invention for—"Improvements in the manufacture of bricks, tiles and tubes of earthenware." *Provisional protection only.*

WOOD. 25th February 1857.

547. WILLIAM WOOD, of Monkhill House, near Pontefract, in the County of York, Gentleman, for an invention for—"Improvements in machinery or apparatus used in the manufacture of carpets and other pile fabrics." *Letters Patent sealed.*

WOOD. 25th February 1857.

548. WILLIAM WOOD, of Monkhill House, near Pontefract, in the County of York, Gentleman, for an invention for—"Improvements in machinery or apparatus used in the manufacture of carpets and other pile fabrics." *Letters Patent sealed.*

FENTON. 25th February 1857.

549. JAMES FENTON, of Low Moor, near Bradford, in the County of York, Civil Engineer, for an invention for—"An improved method of connecting the feed pipes of locomotive engines and tenders." *Letters Patent sealed.*

MEAD. MEAD. 25th February 1857.

550. JOB MEAD, of Bethnal Green, and GEORGE MEAD, of the same place, in the County of Middlesex, Iron plate workers, for an invention for—"Improvements in metallic packing boxes or cases." *Provisional protection only.*

PIAUD. 25th February 1857.

551. LAURENT PIAUD, of 39, Rue de l'Echiquier, Paris, in the Empire of France, and of No. 4, South Street, Finsbury, London, for an invention for—"Improvements in ventilating and preventing inundations in coal mines."—*Provisional protection only.*

NEWTON. 25th February 1857.

552. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improved machinery for making preparings from waste silk, cotton, wool, flax, hemp, and other fibrous materials."—*A communication from M. Antoine Louis Warnery, Manufacturer, of Lyons, in the Empire of France.* *Letters Patent sealed.*

DEGRAND. 25th February 1857.

553. LOUIS EMILE OSSIAN DEGRAND, Gentleman, of Paris, in the French Empire, for an invention for—"Certain improved lenticular glasses for lighting and reflecting or refracting." *Letters Patent sealed.*

SCHWEDERSKY. 25th February 1857.

554. CHRISTIAN SCHWEDERSKY, of Railway Place, Fenchurch Street, in the City of London, Merchant, for an invention for—"Improvements in floating ships or vessels." *Provisional protection only.*

JOHNSON. 25th February 1857.

555. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of 166, Buchanan Street, in the City of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in apparatus or instruments for measuring distances and elevations."—*A communication from Enoch A. Crandall, of Friendship, Alleghany County, in the State of New York, United States of America.* *Letters Patent sealed.*

JOHNSON. 25th February 1857.

556. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of 166, Buchanan Street, in the City of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in carding machines."—*A communication from Eugène Lhuillier, of Louviers, in the Empire of France, Merchant and Spinner.* *Letters Patent sealed.*

PICCIOTTO. 25th February 1857.

557. MOSES HAYM PICCIOTTO, of 8, Crosby Square, in the City of London, Merchant, for an invention for—"Improvements in preparing flax, hemp, and other fibrous substances." *Letters Patent sealed.*

SPENCE. 25th February 1857.

558. JAMES SPENCE, of Park Terrace, Brixton Road, in the County of Surrey, for an invention for—"An improvement in the manufacture of artificial coral." *Provisional protection only.*

GODET. 25th February 1857.

559. AUGUSTE GODET, Captaine de Marines, of Bordeaux, for an invention for—"Improvements in reefing sails." *Letters Patent sealed.*

GLEW. 26th February 1857.

560. JOHN HENRY GLEW, of No. 18, Charlotte Street, in the Parish of St. Pancras, in the County of Middlesex, Boot and Shoe Maker, for an invention for—"An improved method of fastening ladies' and gentlemen's boots and shoes. *Provisional protection only.*

SHAW. 26th February 1857.

561. THOMAS GEORGE SHAW, of No. 35, Great Saint Helen's, Bishopsgate, in the City of London, Merchant, for an invention for—"An improved thrashing and winnowing machine, which he calls 'Flail thrashing machine' for corn and other grain." *Letters Patent sealed.*

WILEY. 26th February 1857.

562. WILLIAM EDWARD WILEY, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"Improvements in ever-pointed pencil cases." *Provisional protection only.*

EDWARDS. 26th February 1857.

563. DAVID OWEN EDWARDS, Surgeon, of Cambridge Villa, Gilston Road, West Brompton, in the County of Middlesex, for an invention for—"Ventilating and removing the products of combustion of fuel and of respiration from the apartments of dwellinghouses and from public buildings." *Provisional protection only.*

HOY. 26th February 1857.

564. JOSEPH HOY, senior, of Islington, in the County of Middlesex, Stone Mason, for an invention for—"Improvements in apparatus for distributing sand on railway rails." *Provisional protection only.*

How.
26th February 1857.

565. Andrew Peddie How, of Mark Lane, in the City of London, Engineer, for an invention for—"Improvements in machinery or tools for drilling and boring."
Provisional protection only.

Bruton.
Bruton.
Bruton.
Bruton.
26th February 1857.

566. Charles Bruton, Senior, Charles Bruton, Junior, Francis James Bruton, and Samuel Rogers Bruton, of the City of Manchester, in the County of Lancaster, Ink Manufacturers and Stationers, for an invention for—"An improved azure blue for domestic purposes." *Letters Patent sealed.*

Edwards.
26th February 1857.

567. Joseph Slatterie Edwards, of the firm of Edwards Brothers, of 233 and 234, Blackfriars Road, in the County of Surrey, Flour and Corn Merchants, for an invention for—"The preparation and novel application of a certain foreign fruit or vegetable as an article of food, confectionery, or to be used in brewing or distilling, or for the manufacture of sugar and gum." *Letters Patent sealed.*

Mills.
26th February 1857.

568. William Mills, of 2, Lower Craven Place, Kentish Town, for an invention for—"An improvement in the action of upright pianofortes." *Letters Patent sealed.*

Hodgson.
Carter.
26th February 1857.

569. Brook Hodgson, and John Carter, of Halifax, in the County of York, for an invention for—"Improvements in looms for weaving Brussels carpets and other terry fabrics." *Letters Patent sealed.*

Cassaignes.
26th February 1857.

570. Victor Cassaignes, of 10, Queen Street, Golden Square, for an invention for—"Improvements in the manufacture of metallic pens and penholders."
Letters Patent sealed.

Macfarlane.
26th February 1857.

571. Walter Macfarlane, of Glasgow, in the County of Lanark, North Britain, Engineer, for an invention for—"Improvements in moulding or manufacturing cast iron pipes." *Letters Patent sealed.*

Amies.
26th February 1857.

572. Nathaniel Jones Amies, of Manchester, in the County of Lancaster, Smallware Manufacturer, for an invention for—"Certain improvements in machinery or apparatus for polishing and finishing yarns or threads."—*Provisional protection only.*

Ermen.
Spencer.
27th February 1857.

573. Godfrey Ermen, and Francis Spencer, both of the City of Manchester, Manufacturers, for an invention for—"Improvements in the manufacture of bands, straps, or belts, for driving machinery and for other purposes.
Provisional protection only.

Davies.
27th February 1857.

574. David Davies, of Wigmore Street, Cavendish Square, in the County of Middlesex, Coach Maker, for an invention for—"An improvement in steps for carriages." *Letters Patent sealed.*

Robertson.
Orchar.
Menzies.
27th February 1857.

575. William Robertson, and James Guthrie Orchar, of Dundee, in the County of Forfar, North Britain, Engineers, and John Menzies, of Ordie Mill, in the County of Perth, North Britain, Shuttle Maker, for an invention for—"Improvements in machinery or apparatus for winding yarns or thread."—*Letters Patent sealed.*

Wilkinson.
27th February 1857.

576. William Wilkinson, of Nottingham, Engineer, for an invention for—"Improvements in lighting and in lamps." *Provisional protection only.*

Mucklow.
27th February 1857.

577. Edward Mucklow, of Bury, in the County of Lancaster, Manufacturing Chemist, for an invention for—"Certain improvements in apparatus to be employed for the purposes of cooling and evaporating." *Letters Patent sealed.*

Mucklow.
27th February 1857.

578. Edward Mucklow, of Bury, in the County of Lancaster, Manufacturing Chemist, for an invention for—"An improvement in the manufacture of 'Alizarine.'"
Provisional protection only.

Thornthwaite.
27th February 1857.

579. William Henry Thornthwaite, of Nos. 121, 122, and 123, Newgate Street, in the City of London, for an invention for—"Certain improvements in barometers." *Letters Patent sealed.*

Field.
Goodman.
Goodman.
27th February 1857.

580. James Richard Field, of Nos. 114 and 115, Fore Street, Cripplegate, in the City of London, Julius Goodman, and Louis Goodman, both of No. 41, Great Prescott Street, Goodman's Fields, in the City of London, for an invention for—"Certain improvements in trousers." *Provisional protection only.*

Draper.
27th February 1857.

581. Samuel Draper, of Lenton, Nottingham, for an invention for—"Improvements in apparatus for retarding and stopping carriages on railways, and in cocks or taps used for such and other purposes." *Letters Patent sealed*

NEWTON.
27th February 1857.

582. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"An improvement in springs for railroad carriages and other uses."—*A communication.* *Letters Patent sealed.*

NEWTON.
27th February 1857.

583. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improved valve gear for reciprocating steam-engines whose power is applied directly by the piston without employing a rotary shaft."—*A communication.* *Letters Patent sealed.*

STUBBIN.
28th February 1857.

584. FREDERICK STUBBIN, of Bawtry, in the County of York, Gentleman, for an invention for—"Improvements in propelling vessels." *Provisional protection only.*

HEALE.
HEALE.
28th February 1857.

585. EDGAR HEALE, and MARY ANN HEALE, of Albion Terrace, Hatfield New Town, Hertfordshire, for an invention for—"The treatment of vegetable and other substances." *Letters Patent sealed.*

DURANT.
28th February 1857.

586. ANGUISH HONOUR AUGUSTUS DURANT, of the Conservative Club, Saint James's Street, in the County of Middlesex, Esquire, for an invention for—"Improvements in apparatus for ascertaining and indicating the number of and distance travelled by passengers in public carriages and the fares paid." *Provisional protection only.*

BRIGGS.
28th February 1857.

587. JESSE BRIGGS, of Newsted Mill, Pudsey, near Leeds, in the County of York, for an invention for—"Improvements in looms for weaving." *Provisional protection only.*

HARRISON.
28th February 1857.

588. CHARLES WEIGHTMAN HARRISON, of Woolwich, in the County of Kent, Civil Engineer, for an invention for—"Improvements in obtaining light by electricity." *Letters Patent sealed.*

HORTON.
28th February 1857.

589. THOMAS HORTON, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"An improvement or improvements in the manufacture of mottled or variegated soaps." *Provisional protection only.*

WILSON.
28th February 1857.

590. GEORGE WILSON, of Glasgow, in the County of Lanark, North Britain, Manufacturer, for an invention for—"Improvements in weaving." *Letters Patent sealed.*

M'CONNELL.
28th February 1857.

591. JAMES EDWARD M'CONNELL, of Wolverton, in the County of Buckingham, Civil Engineer, for an invention for—"Improvements in railway breaks." *Letters Patent sealed.*

TYLER.
28th February 1857.

592. HENRY WHATLEY TYLER, of 12, Norfolk Crescent, Hyde Park, in the County of Middlesex, Captain Royal Engineers, for an invention for—"Improvements in the permanent way of railways." *Letters Patent sealed.*

FONTAINEMOREAU.
28th February 1857.

593. PETER ARMAND LE COMTE DE FONTAINEMOREAU, of 39, Rue de l'Echiquier, Paris, in the Empire of France, and of 4, South Street, Finsbury, London, for an invention for—"Improvements in window shutters."—*A communication.* *Provisional protection only.*

FONTAINEMOREAU.
28th February 1857.

594. PETER ARMAND LE COMTE DE FONTAINEMOREAU, of 39, Rue de l'Echiquier, Paris, in the Empire of France, and of 4, South Street, Finsbury, London, for an invention for—"Improvements in finger and other rings."—*A communication.* *Provisional protection only.*

BROOMAN.
28th February 1857.

595. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, Patent Agent, for an invention for—"An improvement in the manufacture of sulphate of soda."—*A communication from L. Mesdach, of Paris.* *Letters Patent sealed.*

CUNNINGHAM.
28th February 1857.

596. HENRY DUNCAN PRESTON CUNNINGHAM, of Bury, in the County of Hants, Esquire, for an invention for—"An improvement in sails, and in the reefing and furling of sails, and setting and taking in of sails." *Letters Patent sealed.*

JENNENS.
28th February 1857.

597. THEODORE HYLA JENNENS, of Hunter's Lane, Birmingham, in the County of Warwick, Gentleman, for an invention for—"A new or improved manufacture of rollers or cylinders for printing fabrics." *Letters Patent sealed.*

MURPHY.
2nd March 1857.

598. JAMES MURPHY, of Newport, in the County of Monmouth, Civil Engineer, for an invention for—"Improvements in securing screw nuts on their bolts and bolts in plates." *Letters Patent sealed.*

WRIGHT.
2nd March 1857.

599. SAMUEL WRIGHT, of Halstead, in the County of Essex, Brass Founder, for an invention for—"Improvements in gas regulators." *Letters Patent sealed.*

PARRY. BRIDDON. 2nd March 1857.

600. CHARLES JAMES PARRY and WILLIAM BRIDDON, of Manchester, in the County of Lancaster, Manufacturers, for an invention for—"A certain improvement in the manufacture of shirt collars." *Provisional protection only.*

PARKER. 2nd March 1857.

601. THOMAS PARKER, of Number 34, Sitwell Street, in the Borough of Derby, Engineer, for an invention for—"Improvements in railway wheels." *Provisional protection only.*

JONES. 2nd March 1857.

602. FREDERICK DECASTRO JONES, of No. 29, Tavistock Street, Covent Garden, in the County of Middlesex, for an invention for—"An improvement in the construction of the bits of horses."—*A communication.* *Provisional protection only.*

PEDDER. 2nd March 1857.

603. WILLIAM PEDDER, of No. 4, Savage Gardens, Tower Hill, in the City of London, Master Mariner, for an invention for—"Certain improved methods of strengthening metallic and other structures." *Letters Patent sealed.*

JONES. 2nd March 1857.

604. EDWIN FRANCIS JONES, of Redcar, in the County of York, Engineer, for an invention for—"Improvements in the manufacture of pig and bar iron." *Letters Patent sealed.*

SMITH. CADMAN. CADMAN. 2nd March 1857.

605. WILLIAM HENRY SMITH, M.D., of the City of Philadelphia, United States of America, now of London, JAMES CADMAN, of Maesteg, Glamorganshire, and JOSEPH CADMAN, of Saundersfoot, Pembrokeshire, both the last named of Wales, for an invention for—"An improved method of manufacturing solid and hollow bricks, pipes, and other hollow and solid ware, from clay, shale and other mineral substances." *Provisional protection only.*

ROSE. 2nd March 1857.

606. THOMAS ROSE, junior, of Botany Bay Farm, Helgay Fen, in the County of Norfolk, Farmer, for an invention for—"Improvements in apparatus for cutting or disintegrating vegetable substances." *Letters Patent sealed.*

MOWBRAY. 2nd March 1857.

607. FREDERICK WILLIAM MOWBRAY, of Bradford, in the County of York, Engineer, for an invention for—"Improvements in weaving." *Letters Patent sealed.*

PAUVERT. 2nd March 1857.

608. CHARLES PAUVERT, of Chatellerault, Town in the French Empire, Ecclesiastic, for an invention for—"Certain improvements in manufacturing iron." *Letters Patent sealed.*

PAUVERT. 2nd March 1857.

609. CHARLES PAUVERT, of Chatellerault, Town in the French Empire, Ecclesiastic, for an invention for—"Certain improvements in manufactnring cast steel." *Letters Patent sealed.*

PAUVERT. 2nd March 1857.

610. CHARLES PAUVERT, of Chatellerault, Town in the French Empire, Ecclesiastic, for an invention for—"Certain improvements in manufacturing steel and cast steel." *Letters Patent sealed.*

POUPARD. 2nd March 1857.

611. WILLIAM POUPARD, of Wych Street, in the County of Middlesex, Engineer, for an invention for—"An improvement in buttons and means of fastening buttons to garments and fabrics." *Letters Patent sealed.*

BROOMAN. 2nd March 1857.

612. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, Patent Agent, for an invention for—"A method of constructing and heating buildings, and apparatus for the winding of silk from the cocoon."—*A communication from Felix Rignon, of Turin.* *Letters Patent sealed.*

PATRIDGE. 2nd March 1857.

613. DAVID PATRIDGE, of Woolwich, in the County of Kent, Engineer, for an invention for—"Improvements in steam-boilers." *Letters Patent sealed.*

BROWN. 2nd March 1857.

614. WILLIAM BROWN, of Gresham Street, in the City of London, Merchant, for an invention for—"An improved mode of preparing tapes for the market." *Letters Patent sealed.*

ANDERSON. 2nd March 1857.

615. JAMES ANDERSON, of West Bromwich, in the County of Stafford, Manager, for an invention for—"An improvement in the process generally termed 'gathering' used in the manufacture of certain kinds of glass." *Provisional protection only.*

GRAY. 2nd March 1857.

616. THOMAS GRAY, of Rose Lane, Stepney, Ink Manufacturer, for an invention for—"Improvements in separating vegetable fibres from mixed fabrics." *Letters Patent sealed.*

SILEONI. 3rd March 1857.

617. GIACOMO SILEONI, of Genoa (Sardinia), Merchant, for an invention for—"Obtaining starch from a plant called Arum Maculatum and Arum Italicum, and from all other roots and plants of the Arum genus." *Provisional protection only.*

BROAD. 3rd March 1857.

618. JAMES BROAD, of 149 and 150, Drury Lane, Holborn, in the County of Middlesex, for an invention for—"The application of artificial boards or papier mâché or patent composition boards composed (or partly so) of any vegetable fibre, and the like either in its raw state or worked up from old substances, to friction washers of every description of wheeled carriage and cart axles, also for covering wing and dash irons, and forming heel boards for Hansom cabs." *Provisional protection only.*

BANKS. 3rd March 1857.

619. JOHN BANKS, of the Town of Northampton, in the County of Northampton, for an invention for—"A new description of life preserver adapted also to the preservation of property." *Letters Patent sealed.*

LEUCHARS. 3rd March 1857.

620. WILLIAM LEUCHARS, of No. 38, Piccadilly, in the County of Middlesex, for an invention for—"Improvements in locks for travelling bags, portfolios, despatch boxes, and such like depositories." *Letters Patent sealed.*

DANRÉ. MOUILLARD. MERCIER. 3rd March 1857.

621. GEORGES DANRÉ, Engineer, and PIERRE FORTUNÉ VICTOR MOUILLARD, Gentleman, and PIERRE ADRIEN MERCIER, Gentleman, of Paris, in the French Empire, for an invention for—"An improved method of and apparatus for heating by gas." *Provisional protection only.*

LINDNER. 3rd March 1857.

622. EDWARD LINDNER, of New York, United States, Engineer, for an invention for—"Improvements in cartridges and bullets, together with an apparatus for producing the same. *Letters Patent sealed.*

BALL. 3rd March 1857.

623. THOMAS BALL, of Nottingham, for an invention for—"An improvement in the manufacture of warp fabrics suitable for manufacture of gloves." *Provisional protection only.*

NEWTON. 3rd March 1857.

624. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improved means for preventing the forgery or imitation of bank notes, bills, certificates, cheques, bonds, deeds, and other like articles."—*A communication.* *Letters Patent sealed.*

NEWTON. 3rd March 1857.

625. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improved machinery for removing snow from railways."—*A communication.* *Provisional protection only.*

NEWTON. 3rd March 1857.

626. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"A preparation of materials for coating roofs or other portions of buildings to render them impervious to wet."—*A communication.* *Letters Patent sealed.*

TAYLOR. 3rd March 1857.

627. WILLIAM TAYLOR, of How Wood, in the County of Renfrew, North Britain, Merchant, for an invention for—"Improvements in the manufacture of iron and steel." *Letters Patent sealed.*

ADAM. TEMPLETON. 3rd March 1857.

628. WILLIAM ADAM, of Glasgow, in the County of Lanark, North Britain, Warehouseman, and JOHN STEWART TEMPLETON, of the same place, Manufacturer, for an invention for—"Improvements in weaving looped and piled fabrics." *Provisional protection only.*

MAIR. 3rd March 1857.

629. ROBERT MAIR, of Edinburgh, in the County of Midlothian, North Britain, Gentleman, for an invention for—"Improvements in apparatus for protecting articles worn on the person." *Letters Patent sealed.*

BODMER. 4th March 1857.

630. RUDOLPH BODMER, of 2, Thavies Inn, Holborn, in the City of London, for an invention for—"Improvements in apparatus for steering ships."—*A communication from John Dominick Ghersi, of Genoa, in the kingdom of Sardinia.* *Letters Patent sealed.*

RALSTON. 4th March 1857.

631. GERARD RALSTON, of 21, Tokenhouse Yard, in the City of London, Civil Engineer, for an invention for—"Improvements in fire-arms and in balls or projectiles."—*A communication.* *Letters Patent sealed.*

BROWN. 4th March 1857.

632. THOMAS BROWN, of Fenchurch Street, in the City of London, for an invention for—"Improvements in capstans." *Letters Patent sealed.*

HARTLEY. FARRAR. 4th March 1857.

633. WILLIAM HARTLEY, and THOMAS HARDMAN FARRAR, of Bolton, in the County of Lancaster, Machinists, for an invention for—"Improvements in looms." *Letters Patent sealed.*

TREEBY. 4th March 1857.

634. THOMAS WRIGHT GARDENER TREEBY, of No. 1, Westbourne Terrace Villa, Paddington, in the County of Middlesex, for an invention for—"Improvements in sewers and gullies, and outfall to sewers and gullies, and of sewage."
Provisional protection only.

DE ZENG. 4th March 1857.

635. HENRY LAWRENCE DE ZENG, of Geneva, in the County Ontario, and State of New York, United States of America, for an invention for—"Improvements in marine and fog signals for reefs and other locations." *Provisional protection only.*

NEWTON. 4th March 1857.

636. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Certain improvements in machines for cutting standing crops."—*A communication.*
Letters Patent sealed.

HEINKE. 4th March 1857.

637. JOHN WILLIAM HEINKE, of Great Portland Street, Engineer, for an invention for—"An improved construction of diving bell." *Provisional protection only.*

STEPHENS. 4th March 1857.

638. JAMES STEPHENS, of 8, Northampton Road, Clerkenwell, in the County of Middlesex, Metal Worker, for an invention for—"Improvements in paint brushes and in similar kinds of brushes." *Letters Patent sealed.*

DYSON. 5th March 1857.

639. GEORGE WALTER DYSON, Steel Roller, Tinsley, near Sheffield, in the County of York, for an invention for—"Tilting iron and steel or any other malleable substance, by perpendicular motion." *Letters Patent sealed.*

BRADSHAW. 5th March 1857.

640. WILLIAM FREDRICK TAYLOR BRADSHAW, Sheffield, in the County of York, Palette Knife Manufacturer, No. 54, Thomas Street, for an invention for—"Improvements in making palette and other like knives." *Letters Patent sealed.*

MUIR. 5th March 1857.

641. WILLIAM MUIR, of Glasgow, in the County of Lanark, North Britain, Engineer, for an invention for—"Improvements in generating steam for marine purposes." *Letters Patent sealed.*

BARDIN. 5th March 1857.

642. JEAN LOUIS FRÉDÉRIC BARDIN, of Paris (France), Merchant, for an invention for—"A new mode of ornamentation." *Letters Patent sealed.*

SUTCLIFFE. STOCKS. 5th March 1857.

643. SAMUEL SUTCLIFFE, of Manningham, near Bradford, in the County of York, Cotton Spinner, and JAMES STOCKS, of the same place, Engine Tenter, for an invention for—"Improvements in means or apparatus in connection with steam-boiler and other furnaces to facilitate the consumption of smoke therein."
Provisional protection only.

HOLLAND. 5th March 1857.

644. WILLIAM HOLLAND, of Birmingham, in the County of Warwick, Tool Maker, for an invention for—"A new or improved manufacture of runner notches and top notches for umbrellas and parasols." *Letters Patent sealed.*

GREAVES. 5th March 1857.

645. HUGH GREAVES, of New Palace Yard, in the City of Westminster, Civil Engineer, for an invention for—"Improvements in the mode of coupling or connecting pipes, columns, and conduits, in the machinery for manufacturing the hoops to be used in connecting such pipes and columns, and in the shape of such pipes, columns, and conduits, whereby they become adapted for the support and conveyance of vehicles." *Letters Patent sealed.*

ANSENS. 5th March 1857.

646. ANTHONY ANSENS, of Paris, in the Empire of France, Coppersmith Mechanician, for an invention for—"Improvements in moulds or forms for loaves of sugar." *Provisional protection only.*

BURSTALL. 5th March 1857.

647. THOMAS BURSTALL, of Southall, in the County of Middlesex, Civil Engineer, for an invention for—"Certain improved machinery for manufacturing bricks and tiles from clay alone or mixed with other materials."
Complete specification; Letters Patent sealed.

WOODLEY. SWINFORD. 5th March 1857.

648. JOHN WOODLEY, and HENRY HERBERT SWINFORD, both of Limehouse, in the County of Middlesex, Coopers, for an invention for—"Improvements in sawing-machines." *Letters Patent sealed.*

BOWER. 5th March 1857.

649. GEORGE BOWER, of Saint Neots, in the County of Huntingdon, Gas Engineer, for an invention for—"Improvements in apparatus for manufacturing gas." *Letters Patent sealed.*

THOMPSON. 5th March 1857.

650. THOMAS JEFFERSON THOMPSON, of Greenwood Park, Newry, in the County of Down, Ireland, Mechanical Engineer, for an invention for—"Improvements in the construction of gasometers whereby they are rendered applicable to lighting railway carriages." *Letters Patent sealed.*

TRAVIS. 5th March 1857.

651. WILLIAM TRAVIS, of Crompton, in the Parish of Prestwich-cum-Oldham, in the County of Lancaster, Carder, for an invention for—"Improvements in furnaces." *Provisional protection only.*

NEWTON. 5th March 1857.

652. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"An improved manufacture of tracing cloth."—*A communication.* *Letters Patent sealed.*

CHEETHAM. SOUTHWORTH. 5th March 1857.

653. JAMES KINDER CHEETHAM, of Rochdale, in the County of Lancaster, Doctor of Medicine, and THOMAS SOUTHWORTH, of the same place, Gentleman, for an invention for—"Improvements in the use or application of certain substances for sizing or finishing yarn or thread, also applicable for sizing or stiffening woven and other fabrics." *Letters Patent sealed.*

BOUSFIELD. 5th March 1857.

654. GEORGE TOMLINSON BOUSFIELD, of Sussex Place, Loughborough Road, Brixton, in the County of Surrey, for an invention for—"Improvements in machinery for compressing clay and other materials applicable to the manufacture of bricks and other articles."—*A communication.* *Letters Patent sealed.*

COWARD. 5th March 1857.

655. RICHARD ATKINSON COWARD, of Laurence Pountney Lane, in the City of London, for an invention for—"Improvements in screw or submerged propellers."—*A communication.* *Letters Patent sealed.*

KING. 6th March 1857.

656. JOHN KING, of Saint Swithin's Lane, in the City of London, for an invention for—"Improvements in the manufacture of boots and shoes."—*A communication.* *Provisional protection only.*

CALVERT. 6th March 1857.

657. FRANCIS ALTON CALVERT, of the City of Manchester, Engineer, for an invention for—"Improvements in machinery for ginning cotton and for cleaning and carding cotton and other fibrous materials." *Letters Patent sealed.*

FINDLATER. KEETLEY. 6th March 1857.

658. WILLIAM FINDLATER, of Birmingham, in the County of Warwick, Coach Builder, and WILLIAM KEETLEY, of Birmingham aforesaid, Coach Builder, for an invention for—"An improvement or improvements in carriages." *Provisional protection only.*

BARTON. BROOKES. 6th March 1857.

659. LUKE BARTON, of Ison Green, near Nottingham, Machinist, and EDWIN STANLEY BROOKES, of Nottingham, Hosier, for an invention for—"Improvements in the manufacture of knitted fabrics." *Letters Patent sealed.*

DANRÉ. MOUILLARD. MERCIER. 6th March 1857.

660. GEORGES DANRÉ, Engineer, and PIERRE FORTUNÉ VICTOR MOUILLARD, Gentleman, and PIERRE ADRIEN MERCIER, Gentleman, of Paris, in the French Empire, for an invention for—"Improvements in carbonizing or distilling wood, peat, oil-cake, coal and other substances for the production of gas for lighting, in carburetting or increasing the illuminating effect of, and in compressing gas, also in the apparatuses employed for such purposes." *Provisional protection only.*

PETRIE. 6th March 1857.

661. WILLIAM PETRIE, of Woolwich, in the County of Kent, Civil Engineer, for an invention for—"Improved means of and apparatuses for creating or increasing drafts and currents." *Letters Patent sealed.*

BROOMAN. 6th March 1857.

662. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, Patent Agent, for an invention for—"Improvements in furnaces and fireplaces."—*A communication from A. E. Dussard, of Marseilles.* *Provisional protection only.*

ORDISH. 7th March 1857.

663. ROWLAND MASON ORDISH, of Saint Mark's Crescent, Regent's Park, in the County of Middlesex, for an invention for—"Improvements in suspension bridges." *Letters Patent sealed.*

PAGNERRE. 7th March 1857.

664. ELÉONORE AUGUSTIN PAGNERRE, of No. 143, Drury Lane, in the County of Middlesex, Designer and Engraver, for an invention for—"A machine for counting, cutting, and inserting wire in blocks of wood, for the purpose of printing and stamping on linen, calico, silk, cloth, and paper, and for all printing purposes." *Provisional protection only.*

PARKES. 7th March 1857.

665. JOSIAH PARKES, of No. 11, Great College Street, Westminster, Civil Engineer, for an invention for—"An improved apparatus for locomotive purposes." *Letters Patent sealed.*

HAWKSLEY. 7th March 1857.

666. GEORGE HAWKSLEY, of Bromley, in the County of Middlesex, Engineer, for an invention for—"An improvement in constructing apparatus for heating and cooling air, steam, and other fluids." *Letters Patent sealed.*

LUNGLEY. 7th March 1857.

667. CHARLES LUNGLEY, of Deptford Green Dockyard, Ship Builder, for an invention for—"An improved mode of constructing dry docks and basins for the stowage of ships." *Letters Patent sealed.*

URQUHART. 7th March 1857.

668. WILLIAM URQUHART, of 481, New Oxford Street, London, for an invention for—"A new mode of ornamenting household furniture."—*Provisional protection only.*

TABOURIN. 7th March 1857.

669. GEORGES ANTOINE TABOURIN, of the Town of Lyons, France, for an invention for—"An improved rotative engine." *Provisional protection only.*

MARY'ON. 7th March 1857.

670. ROBERT JAMES MARY'ON, Mechanician, of No. 40, Hooper Street, Westminster Road, Lambeth, in the County of Surrey, for an invention for—"Improvements in the construction of steam locomotive engines."—*Provisional protection only.*

M'GRADE. 7th March 1857.

671. PATRICK M'GRADE, of No. 7, Upper Liffey Street, in the City of Dublin, for an invention for—"Improved machinery or apparatus for propelling ships or boats." *Provisional protection only.*

BROOMAN. 7th March 1857.

672. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, E.C., Patent Agent, for an invention for—"An improved method of and apparatus for maintaining the water level in boilers."—*A communication.* *Letters Patent sealed.*

RESTELL. 7th March 1857.

673. THOMAS RESTELL, of New Kent Road, S.E., in the County of Surrey, Chronometer Maker, for an invention for—"Improvements in or connected with fire-arms." *Provisional protection* NOT *granted.*

PHILCOX. 9th March 1857.

674. GEORGE PHILCOX, of No. 7, Stebon Terrace, Stepney, in the County of Middlesex, Chronometer Maker, for an invention for—"Improvements in marine and pocket chronometers and other time keepers." *Complete specification; Letters Patent sealed.*

SHARP. 9th March 1857.

675. CLEMENT SHARP, of Birmingham, in the County of Warwick, Gentleman, for an invention for—"A new or improved manufacture of ships' thimbles and other metallic fittings used for rigging and sails and rope gearing in general." *Letters Patent sealed.*

LEE. CRABTREE. 9th March 1857.

676. JAMES DENBY LEE, of Shipley, in the Parish of Bradford, and JAMES CRABTREE, of Windhill, in the Parish of Calverley, both in the West Riding of the County of York, Machine Makers, for an invention for—"Improvements in power looms." *Provisional protection only.*

HEMMING. 9th March 1857.

677. FREDERICK SHAND HEMMING, of Westminster, County of Middlesex, Mining Agent and Engineer, for an invention for—"Improvements in the manufacture of railway chairs and sleepers." *Letters Patent sealed.*

TYTHERLEIGH. 9th March 1857.

678. WILLIAM TYTHERLEIGH, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"Improvements in the manufacture of bullets and shot." *Provisional protection only.*

DAVIES. 9th March 1857.

679. GEORGE DAVIES, of 1, Serle Street, Lincoln's Inn, in the County of Middlesex, and 28, St. Enoch Square, Glasgow, North Britain, Civil Engineer and Patent Agent, for an invention for—"An improved self inking stamp for printing cards, labels and other articles."—*A communication from William H. Elliot, of Plattsburgh, in the State of New York.* *Letters Patent sealed.*

CUMINE. HUNTER. 9th March 1857.

680. JAMES ANDREW CUMINE, of Belfast, in the County of Antrim, Ireland, Optician, and COLIN HUNTER, of Islandreagh, in the same County, Bleacher, for an invention for—"Improvements in electro-magnetic engines and batteries." *Letters Patent sealed.*

FAULKNER. 9th March 1857.

681. SAMUEL FAULKNER, of Manchester, in the County of Lancaster, Cotton Spinner, for an invention for—"Certain improvements in machinery or apparatus for carding cotton and other fibrous substances." *Letters Patent sealed.*

COOK. STOKES. 9th March 1857.

682. EDWARD COOK, of Birmingham, in the County of Warwick, Gentleman, and JAMES STOKES, Journeyman Metallic Bedstead Maker, also of Birmingham, in the said County, for an invention for—"Improvements in certain parts of metallic bedsteads." *Letters Patent sealed.*

SMITH. 9th March 1857. — **683.** HENRY RICHARD SMITH, Engineer and Machinist, of Wellingborough, Northamptonshire, for an invention for—"Certain improvements in manufacturing and purifying gas made from coal or other bituminous substances for illumination." *Letters Patent sealed.*

SIMPSON. 9th March 1857. — **684.** FREDERICK SIMPSON, of Redhill, Reigate, for an invention for—"An improved mode of forming a screw in the necks of bottles, jars, and other similar vessels." *Letters Patent sealed.*

DENNETT. 9th March 1857. — **685.** CHARLES COLTON DENNETT, of Nottingham, in the County of Nottingham, Builder, for an invention for—"A new construction of floors and ceilings of buildings." *Letters Patent sealed.*

LIEBMANN. 9th March 1857. — **686.** CARL HEINRICH JULIUS WILHEM MAXIMILIAN LIEBMANN, of Fartown, Huddersfield, in the County of York, Warehouseman, for an invention for—"Improvements in the purification of water and the preparation of materials requisite for the process."—*A communication.* *Letters Patent sealed.*

NEWTON. 9th March 1857. — **687.** WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improved machinery for cutting screw threads."—*A communication.* *Letters Patent sealed.*

NEWTON. 9th March 1857. — **688.** WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Certain improvements in steering apparatus for ships and other veseels."—*A communication.* *Letters Patent sealed.*

NEWTON. 9th March 1857. — **689.** ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"An improved construction of rudder.—*A communication.* *Letters Patent sealed.*

MARSHALL. 9th March 1857. — **690.** JAMES GARTH MARSHALL, of Leeds, in the County of York, Flax Spinner, for an invention for—"Improvements in machinery for preparing flax, hemp, china-grass, and other fibrous substances." *Letters Patent sealed.*

KNOX. ROBSON. 9th March 1857. — **691.** ANDREW KNOX, of Mile End, in the County of Middlesex, and THOMAS ROBSON, of Aldersgate Street, in the City of London, Engineers, for an invention for—"An improved gas regulator." *Letters Patent sealed.*

BARLOW. SAMUEL. 9th March 1857. — **692.** WILLIAM HENRY BARLOW, of Derby, and JAMES SAMUEL, of Great George Street, Westminster, for an invention for—"Improvements in cast iron sleepers for railways." *Letters Patent sealed.*

SCHAEFFER. 9th March 1857. — **693.** WILLIAM CHARLES THEODORE SCHAEFFER, of Stanningley, near Leeds, in the County of York, for an invention for—"Improvements in treating the waste waters of woollen and other mills." *Provisional protection only.*

FITTON. 9th March 1857. — **694.** FREDERICK ALEXANDER FITTON, of Ardwick, in the City of Manchester, in the County of Lancaster, Mechanic, for an invention for—"Improvements in certain machines for preparing, spinning and doubling cotton and other fibrous substances." *Letters Patent sealed.*

DUYCK. 9th March 1857. — **695.** JAMES EDWARD DUYCK, of West Farleigh, in the County of Kent, Gentleman, for an invention for—"An improvement in treating cotton seed in order to extract colour from the oil obtained therefrom." *Letters Patent sealed.*

DYAR. 9th March 1857. — **696.** NATHAN APPLETON DYAR, of the State of Massachusetts, of the United States of America, for an invention for—"A new and useful composition to be applied as a covering to the sides and roofs of buildings and for various other purposes." *Complete specification; Letters Patent sealed.*

NEUENSCHWANDER. 10th March 1857. — **697.** JOHANNES NEUENSCHWANDER, of Albion Wharf, Kensington Basin, Kensington, for an invention for—"Improvements in the process of preserving milk." *Letters Patent sealed.*

DAY. 10th March 1857. — **698.** WILLIAM CHARLES DAY, of the Strand, in the County of Middlesex, Military Equipage Manufacturer, for an invention for—"Improvements in portmanteaus." *Letters Patent sealed.*

REYNAUD. 10th March 1857.

699. CHARLES REYNAUD, of Lyons, in the Empire of France, and of 2, Catherine Street, Strand, in the County of Middlesex, Upholsterer, for an invention for—"Improvements in the application of india-rubber springs to mattresses, sofas, chairs, and other cushions or articles of furniture."—*Partly a communication.*

Letters Patent sealed.

HAMILTON. 10th March 1857.

700. JAMES HAMILTON, of Rochdale, in the County of Lancaster, Tin Plate Worker, for an invention for—"Improvements in coating iron and other metals with metallic substances." *Letters Patent sealed.*

BAYLIS. 10th March 1857.

701. CHARLES BAYLIS, of the Poultry, in the City of London, Solicitor, for an invention for—"An improved method of constructing and arranging roads and ways, particularly applicable to populous cities and crowded thoroughfares."

Letters Patent sealed.

JONES. 11th March 1857.

702. ROBERT LEWIS JONES, of Chester, in the County of Chester, for an invention for—"Improvements in regulating clocks by electricity. *Letters Patent sealed.*

MOUNTFORD. 11th March 1857.

703. GEORGE MOUNTFORD, of Caledonian Terrace, Leeds, in the County of York, Surveyor, for an invention for—"Improvements in machinery or apparatus for cutting or chopping loaf sugar, roots, and other substances. *Letters Patent sealed.*

MAKIN. 11th March 1857.

704. WILLIAM MAKIN, of Hollingworth, in the County of Chester, Engineer, for an invention for—"Improvements in furnaces and apparatus for generating steam."

Letters Patent sealed.

GIAJOLO. 11th March 1857.

705. CHARLES EMILE GIAJOLO, of Birmingham, in the County of Warwick (Boyce's Cottage, No. 2, Sheep Cott Lane) for an invention for—"Improvements in moderator lamps." *Provisional protection only.*

DENHAM. 11th March 1857.

706. SIMEON DENHAM, of Strafford Square, Wakefield, in the County of York, for an invention for—"A self acting machine for the delivery of postage and receipt stamps." *Provisional protection only.*

BODEN. 11th March 1857.

707. WILLIAM BODEN, of Blackwall, Poplar, in the County of Middlesex, Gas Fitter, for an invention for—"Improved apparatus for flushing water-closets and urinals." *Provisional protection only.*

HUMFRYS. 11th March 1857.

708. JOHN ROBERT REID HUMFRYS, of Salford, in the County of Lancaster, Master of Arts, for an invention for—"Improvements in apparatus for burning gas."

Provisional protection only.

HALE. 11th March 1857.

709. WILLIAM HALE, of Swan Walk, Chelsea, in the County of Middlesex, Engineer, for an invention for—"An improvement in rolling iron and steel."

Provisional protection only.

COOPER. 11th March 1857.

710. JAMES DAVIS COOPER, of 26, Great James Street, Bedford Row, in the County of Middlesex, for an invention for—"Improvements in producing engraved surfaces for surface printing." *Provisional protection only.*

DERRIEY. 12th March 1857.

711. JOSEPH JULES DERRIEY, of Paris (France), Mechanician, for an invention for —"Improvements in machines for manufacturing lozenges, wafers or pastilles, of pasty materials." *Letters Patent sealed.*

WARESQUIEL. D'HELLE. 12th March 1857.

712. ALBERT VISCOUNT DE WARESQUIEL, Gentleman, and JULIEN D'HELLE, Civil Engineer, for an invention for—"Improvements in railway carriages."

Provisional protection only.

AVERY. 12th March 1857.

713. JOHN AVERY, of 32, Essex Street, Strand, London, Patent Agent, for an invention for—"An improved method of purifying schistous or bituminous oils."—*A communication from Charles Camus & Jean Missillier, of Paris, in the Empire of France.* *Provisional protection only.*

AVERY. 12th March 1857.

714. JOHN AVERY, of 32, Essex Street, London, Patent Agent, for an invention for—"An improved method of preserving butter."—*A communication from Jean Girard, of Miconnet, in the Empire of France.* *Provisional protection only.*

TRAVIS. 12th March 1857.

715. GEORGE TRAVIS, of Mercaston, Derby, for an invention for—"Improvements in apparatus used in the manufacture of cheese." *Letters Patent sealed.*

SHAW. MANWARING. 12th March 1857.

716. JOHN SHAW, and WILLIAM MANWARING, both of the Britannia Works, Banbury, in the County of Oxford, for an invention for—"Improvements in machinery or apparatus for cutting or reducing turnips or other vegetable substances."

Letters Patent sealed.

NEWTON. 12th March 1857. — 717. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improved machinery for drawing and preparing silk, cotton, wool, flax, hemp and other fibrous substances."—*A communication from Mr. Antoine Louis Warnery, of Lyons, in the Empire of France, Manufacturer.* *Letters Patent sealed.*

NEWTON. 12th March 1857. — 718. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in the process of and apparatus for tanning."—*A communication from Mr. Charles Chrétien Knoderer, of Strasbourg, in the Empire of France, Leather Manufacturer.* *Letters Patent sealed.*

HORNE. 13th March 1857. — 719. THOMAS HORNE, Junior, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"A new or improved method of ornamenting metallic bedsteads and wash hand stands." *Letters Patent sealed.*

BERGER. MATILE. 13th March 1857. — 720. EMMANUEL BERGER, Upholsterer, and JULES EDOUARD MATILE, Merchant, both of Paris, in the Empire of France, for an invention for—"Improvements in machinery for beating and brushing carpets." *Letters Patent sealed.*

TAYLOR. ROLFE. 13th March 1857. — 721. SAMUEL LAWRENCE TAYLOR, of Cotton End, in the County of Bedford, Machinist, and THOMAS EATON ROLFE, of Northill, in the same County, Tailor, for an invention for—"Improvements in boilers for generating steam, heating water, and for other heating or boiling purposes." *Letters Patent sealed.*

NEVINS. YATES. 13th March 1857. — 722. WILLIAM RAMSEY NEVINS, and JOSEPH JOHN YATES, both of the City of New York, in the United States of America, Machinists, for an invention for—"Improvements in preparing and baking bread and biscuits, and in machinery employed therein." *Letters Patent sealed.*

SQUIRES. 13th March 1857. — 723. WILLIAM WESTBROOKE SQUIRES, of Liverpool, in the County of Lancaster, Doctor of Medicine, for an invention for—"Improvements in the means of letting on and drawing off water and other fluids." *Provisional protection only.*

HESKETH. 13th March 1857. — 724. WILLIAM HESKETH, of Accrington, in the County of Lancaster, Manufacturer, for an invention for—"Improvements in looms." *Provisional protection only.*

JUVIN. 13th March 1857. — 725. EDMOND JOSEPH NICOLAS JUVIN, of Paris, in the Empire of France, Gentleman, for an invention for—"Improvements in producing printing surfaces." *Provisional protection only.*

COWPER. 14th March 1857. — 726. CHARLES COWPER, of No. 20, Southampton Buildings, Chancery Lane, in the County of Middlesex, Patent Agent, for an invention for—"Improvements in the manufacture of artificial leather or a substitute for leather."—*A communication from Abraham Micoud, of Paris, in France.* *Provisional protection only.*

WHEATMAN. SMITH. 14th March 1857. — 727. JOHN WHEATMAN, and JOHN SMITH, Saw Manufacturers, of Sheffield, in the County of York, trading under the style or firm of "Wheatman and Smith," for an invention for—"Improvements in the mode of grinding circular saws." *Letters Patent sealed.*

MACDONALD. 14th March 1857. — 728. ROBERT MACDONALD, of Glasgow, in the County of Lanark, North Britain, Manufacturer, for an invention for—"Improvements in sewing or embroidering textile fabrics.—*Partly a communication.* *Provisional protection only.*

BRIDGES. 14th March 1857. — 729. HENRY BRIDGES, of Bridgewater, in the County of Somerset, Engineer, for an invention for—"Improvements in buffing, bearing and draw springs, and buffer cases, for railway purposes." *Letters Patent sealed.*

OATES. 14th March 1857. — 730. JOSEPH PIMLOTT OATES, of Erdington, in the County of Warwick, Surgeon, for an invention for—"Improvements in machinery for the manufacture of bricks, tiles, pipes, and other articles made of plastic materials." *Letters Patent sealed.*

NUNN. 14th March 1857. — 731. MARTIN NUNN, of Hampstead, in the County of Middlesex, Gentleman, for an invention for—"Certain improvements in machinery or apparatus for washing or cleansing clothes, piece goods, and other articles." *Letters Patent sealed.*

BRADLEY. WRAY. 14th March 1857. — 732. HENRY BRADLEY, of Hull, in the County of York, Merchant, and ELMIT WRAY, of the same place, Machine Maker, for an invention for—"Improvements in beaters used in thrashing-machines." *Letters Patent sealed.*

BOWDEN. 14th March 1857.

733. THOMAS BOWDEN, of Pendleton, in the County of Lancaster, Millwright, for an invention for—"Improvements in apparatus for discharging the water resulting from the condensing of steam used in apparatus heated by steam."
Provisional protection only.

MARSHALL. 16th March 1857.

734. GEORGE MARSHALL, of Morpeth, in the County of Northumberland, Joiner, for an invention for—"An improved saw setting apparatus." *Letters Patent sealed.*

PIDDING. 16th March 1857.

735. WILLIAM PIDDING, of New Kent Road, in the County of Surrey, Gentleman, for an invention for—"Improvements in machinery or apparatus for the manufacture of piled fabrics whether plain or figured."
Complete specification; Letters Patent sealed.

THOMSON. 16th March 1857.

736. JAMES THOMSON, residing at Black Ruthven, in the County of Perth, North Britain, Farm Steward, for an invention for—"Improvements in mowing and reaping machines."—*A communication from William Thomson, of Canton, Illinois, United States of America.* *Letters Patent sealed.*

GLAYSHER. 16th March 1857.

737. HENRY GLAYSHER, of the Isle of Wight, in the County of Hampshire, Engineer, for an invention for—"Improvements in steam-engine boiler and other furnaces." *Letters Patent sealed.*

MARTIN. 16th March 1857.

738. HENRY MARTIN, of the County Lunatic Asylum, Hanwell, in the County of Middlesex, Engineer, for an invention for—"Improvements in apparatus for the supply of water to steam-boilers." *Letters Patent sealed.*

HALL. 16th March 1857.

739. GEORGE JOSEPH HALL, of 10 and 11, Archer Street, Saint James' in the County of Middlesex, for an invention for—"An improvement in finishing fabrics made wholly or partly of silk." *Provisional protection only.*

MOES. 16th March 1857.

740. JULES MOES, of Rue de l'Echiquier, 19, à Paris, for an invention for—"Improvements in warming and ventilating." *Letters Patent sealed.*

BROOMAN. 16th March 1857.

741. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, E.C., Patent Agent, for an invention for—"Improvements in zincing or coating metals with zinc and in cleaning metals."—*A communication.* *Provisional protection only.*

BROOMAN. 16th March 1857.

742. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, E.C., Patent Agent, for an invention for—"Improvements in apparatuses for splitting leather in order to manufacture tubes, sheaths, and other articles."—*A communication.*
Provisional protection only.

AMIES. 17th March 1857.

743. NATHANIEL JONES AMIES, of Manchester, in the County of Lancaster, Small Ware Manufacturer, for an invention for—"Certain improvements in machinery or apparatus for polishing and finishing yarns or threads." *Letters Patent sealed.*

ASKEW. ASKEW. MYERS. 17th March 1857.

744. CHARLES ASKEW, 27½, Charles Street, Hampstead Road, in the County of Middlesex, Coppersmith, JOHN ASKEW, 27, Charles Street, Hampstead Road, in the County of Middlesex, Coppersmith, HENRY MYERS, 60, Upper Charlotte Street, County of Middlesex, Surgeon, for an invention for—"Improvements in hydraulic and refrigerating apparatus for the purpose of raising sunken vessels, anchors, and all other submerged bodies, with light and other certain apparatus used for the same purposes." *Letters Patent sealed.*

PALMER. 17th March 1857.

745. HENRY BOSWELL PALMER, of Bermondsey, in the County of Surrey, Wool Stapler, for an invention for—"An improved fire lighter."—*Provisional protection only.*

REMFRY. 17th March 1857.

746. GEORGE FARRELL REMFRY, of Riches Court, Lime Street, in the City of London, Merchant, for an invention for—"A portable apparatus for working punkas and whisks." *Letters Patent sealed.*

KNOWLES. 17th March 1857.

747. SIR FRANCIS CHARLES KNOWLES, of Lovell Hill, in the County of Berks, Baronet, for an invention for—"Improvements in the manufacture of cast steel."
Letters Patent sealed.

DEAN. 17th March 1857.

748. THOMAS DEAN, of Whittle Lane, near Burnley, in the County of Lancaster, Power Loom Weaver, for an invention for—"Improvements in looms."
Provisional protection only.

NEWTON. 17th March 1857.

749. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Certain improvements in folding window blinds and shutters."—*A communication.*
Letters Patent sealed.

NEWTON. 17th March 1857. — 750. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Certain improvements in artificial legs."—*A communication.* *Letters Patent sealed.*

ANQUETIN. 17th March 1857. — 751. MODESTE ANQUETIN, of Paris, in the Empire of France, Watch Maker, for an invention for—"An improved traveller's watch. *Letters Patent sealed.*

WITHNALL. 17th March 1857. — 752. JAMES WITHNALL, of Manchester, in the County of Lancaster, Coppersmith, for an invention for—"Certain improvements in the manufacture of rollers or cylinders to be employed for printing calico and other surfaces." *Provisional protection only.*

MACNAUGHT. 17th March 1857. — 753. WILLIAM MACNAUGHT, of Rochdale, in the County of Lancaster, Engineer, for an invention for—"Certain improvements in engines worked by steam or other motive-power, and in their gearing for connecting them with machinery, and in the means of lubricating such engines." *Letters Patent sealed.*

M'CULLOCH. KENNEDY. 17th March 1857. — 754. WILLIAM M'CULLOCH, of Kilmarnock, in the County of Ayr, North Britain, Plumber, and THOMAS KENNEDY, of the same place, Water Meter Maker, for an invention for—"Improvements in stop cocks or valves." *Letters Patent sealed.*

FORSYTH. 17th March 1857. — 755. GEORGE FORSYTH, of the Stakeford Foundry, Maxwelltown, in the Stewartry of Kirkcudbright, North Britain, Engineer, for an invention for—"Improvements in steam cooking apparatus." *Letters Patent sealed.*

FOX. 17th March 1857. — 756. JOHN FOX, of Preston, in the County of Lancaster, Builder, for an invention for—"An improved music scale." *Provisional protection only.*

MILLAR. 18th March 1857. — 757. JOHN MILLAR, of Edinburgh, in the County of Midlothian, Glass Merchant, for an invention for—"Improvements in stoppers or closing apparatus for decanters, bottles, and other receptacles." *Letters Patent sealed.*

YARROW. 18th March 1857. — 758. THOMAS YARROW, of Arbroath, in the County of Forfar, North Britain, Engineer, for an invention for—"Improvements in locomotive steam-engines." *Letters Patent sealed.*

GREEN. 18th March 1857. — 759. JACOB GREEN, of the City of Philadelphia, in the United States of America, for an invention for—"Improvements in gas consuming furnaces, and in the automatic action of the controlling valves or dampers of the said furnaces." *Provisional protection only.*

LOUBATIÈRES. 18th March 1857. — 760. FRANÇOIS BARTHELEMY LOUBATIÈRES, of Agen (France), Merchant, for an invention for—"Improvements in the manufacture of paper, card, and pasteboard." *Provisional protection only.*

MURDOCH. 18th March 1857. — 761. JAMES MURDOCH, of Staple Inn, in the County of Middlesex, Patent Agent, for an invention for—"An improved process for imitating the skins of animals upon fulled cloth."—*A communication from Jules Picque and Charles Piot, of Paris, France.* *Letters Patent sealed.*

TALBOT. 18th March 1857. — 762. RICHARD TALBOT, of Moxley, near Bilston, in the County of Stafford, Furnace Builder, for an invention for—"Improvements in furnaces used in the manufacture of iron." *Provisional protection only.*

WILKES. WILKES. WILKES. 18th March 1857. — 763. JOHN WILKES, of Birmingham, in the County of Warwick, Manufacturer, and THOMAS WILKES, of Birmingham aforesaid, Manufacturer, and GILBERT WILKES, of Birmingham aforesaid, Manufacturer, for an invention for—"A new or improved manufacture of rollers or cylinders for printing fabrics." *Letters Patent sealed.*

HOPE. 18th March 1857. — 764. LEWIS HOPE, of Bishopsgate Churchyard, in the City of London, Merchant, for an invention for—"Improvements in the manufacture of paper."—*A communication from Harriet Smith, late Widow and Executrix of E. P. Woolrich, of Canada, North America.* *Provisional protection only.*

ANDERSON. 18th March 1857. — 765. SIR JAMES CALEB ANDERSON, of Fermoy, in the County of Cork, Ireland, Baronet, for an invention for—"Improvements in locomotive and other carriages." *Provisional protection only.*

TAYLOR. 18th March 1857. — 766. JOHN HORACE TAYLOR, of New York, in the United States of America, Engineer, for an invention for—"Improvements in buckets and valve seats for bilge and other pumps." *Provisional protection only.*

JOHNSON. 18th March 1857.

767. RICHARD JOHNSON, of Manchester, in the County of Lancaster, Wire Drawer, for an invention for—"Improvements in cleaning iron and other metals after the manner known as 'pickling.'" *Provisional protection only.*

LEWIS. 18th March 1857.

768. JOSEPH LEWIS, of Salford, in the County of Lancaster, Machine Maker, for an invention for—"Improvements in machinery or apparatus for reaping and mowing." *Letters Patent sealed.*

WILLIAMS. 19th March 1857.

769. JOEL WILLIAMS, of Mold, in the County of Flint, Engineer, for an invention for—"Improvements in cocks or taps." *Provisional protection only.*

ARMISTEAD. 19th March 1857.

770. HENRY ARMISTEAD, of Colne, in the County of Lancaster, Mill Architect, for an invention for—"An improved 'picker' to be used in power looms for weaving." *Provisional protection only.*

CAMPBELL. 19th March 1857.

771. SAMUEL CAMPBELL, of Newington, in the County of Surrey, Vegetable Preserver, for an invention for—"Improvements in preserving vegetable substances." *Letters Patent sealed.*

BROOMAN. 19th March 1857.

772. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, E.C., Patent Agent, for an invention for—"An improved projectile."—*A communication.* *Provisional protection only.*

REID. 19th March 1857.

773. WILLIAM REID, of Shettleston, in the County of Lanark, North Britain, Colliery Manager, for an invention for—"Improvements in safety apparatus for guarding the mouths of pits, excavations, and other openings."—*Letters Patent sealed.*

MELLIER. 19th March 1857.

774. MARIE AMEDIE CHARLES MELLIER, of Frews Weir Mills, Exeter, in the County of Devon, Paper Maker, for an invention for—"Improvements in desiccating or drying paper and other goods in process of manufacture." *Letters Patent sealed.*

MERRETT. 19th March 1857.

775. WILLIAM GWILLIM MERRETT, of 49, Leadenhall Street, Surgeon, for an invention for—"An improvement in coats and waistcoats." *Letters Patent sealed.*

ADSHEAD. HOLDEN. 20th March 1857.

776. THOMAS SIDEBOTTOM ADSHEAD, of North End Mills, Stalybridge, in the County of Chester, Cotton Spinner, and ABRAHAM HOLDEN, of the same place Carder, for an invention for—"Certain improvements in machinery for carding cotton and other fibrous materials." *Letters Patent sealed.*

NINCK. 20th March 1857.

777. JEAN NINCK, of No. 37, Brewer Street, Golden Square, in the County of Middlesex, Dentist, for an invention for—"Improvements in placing sets or partial sets of teeth, gums, and palates, on plates." *Provisional protection only.*

MAIRE. 20th March 1857.

778. JOSEPH FRANÇOIS MAIRE, of No. 36, Rue de l'Echiquier, Paris, in the Empire of France, for an invention for—"An improved cooking apparatus producing a saving of fuel and time." *Letters Patent sealed.*

HALL. 20th March 1857.

779. HENRY HALL, of Spotland, in the Parish of Rochdale, in the County of Lancaster, Cotton Spinner and Manufacturer, for an invention for—"An addition to throstles for doffing the bobbins." *Letters Patent sealed.*

GRIPPER. 20th March 1857.

780. EDWARD GRIPPER, of Winchester Wharf, Bankside, in the Borough of Southwark, Corn Factor, for an invention for—"The treatment of the fruit or vegetable 'Algorabas,' and in the application of the same as food for cattle." *Provisional protection only.*

WEISS. LISTER. 20th March 1857.

781. CHARLES WEISS, of the firm of Schwann, Kell, & Co., of Huddersfield, in the County of York, Commission Merchants, and HENRY LISTER, of the same place, Manufacturer, for an invention for—"Improvements in the means, machinery, or apparatus employed in the finishing of mohair and other textile fabrics. *Letters Patent sealed.*

WEISS. LISTER. MITCHELL. 20th March 1857.

782. CHARLES WEISS, of the firm of Schwann, Kell, & Co., of Huddersfield, Commission Merchants, HENRY LISTER, of the same place, Manufacturer, and JOHN MITCHELL, of Sheepridge, near Huddersfield, in the County of York, Finisher, for an invention for—"Improvements in finishing woollen and other textile fabrics, and in the machinery or apparatus employed for that purpose." *Letters Patent sealed.*

PARKER. 20th March 1857.

783. JOHN PARKER, of East Markham, near Tuxford, in the County of Nottingham, Agricultural Mechanist, for an invention for—"Improvements in apparatuses for separating corn and other grain and seeds from dust, chaff, and other matters." *Letters Patent sealed.*

GREENWOOD. 20th March 1857.

784. NATHAN JAMES GREENWOOD, of Morley, near Leeds, in the County of York, Woollen Spinner, for an invention for—" Improvements in spinning-mules and slubbing machines." *Letters Patent sealed.*

JOURDA. 20th March 1857.

785. JOHN P. JOURDA, of New York, in the County and State of New York, United States of America, for an invention for—" Raising sunken vessels." *Letters Patent sealed.*

CHEDGEY. 20th March 1857.

786. JOHN CHEDGEY, of the Grove, Southwark, in the County of Surrey, Engineer, for an invention for—" Improvements in machinery for mangling, callendering, or pressing goods." *Letters Patent sealed.*

SAYER. 20th March 1857.

787. GEORGE WILLIAM SAYER, of Cognac, in the Empire of France, Merchant, for an invention for—" Improved machinery for stopping or retarding railway carriages." *Letters Patent sealed.*

ATKIN. MILLER. 20th March 1857.

788. ISAAC ATKIN, of the Town and County of the Town of Nottingham, Lace Manufacturer, and MARMADUKE MILLER, of the same place, Steam Guage Maker, for an invention for—" Improvements in dividing lace." *Letters Patent sealed.*

JOHNSON. 20th March 1857.

789. WILLIAM JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of 166, Buchanan Street, in the City of Glasgow, North Britain, Civil Engineer, for an invention for—" Improvements in steam-boilers and furnaces, and in apparatus connected therewith."—*Partly a communication.* *Letters Patent sealed.*

SEATON. 21st March 1857.

790. WILLIAM SEATON, of Chester Place, Regent's Park, in the County of Middlesex, Gentleman, for an invention for—" Improvements in the construction of the permanent way of railways, and in the machinery or apparatus employed therein. *Letters Patent sealed.*

MOXON. CLAYTON. FEARNLEY. 21st March 1857.

791. WILLIAM MOXON, of Bluepits, in the County of Lancaster, Engineer, and JOHN CLAYTON, of the same place, Carpet Manager, and SAMUEL FEARNLEY, of Halifax, in the County of York, Overlooker, for an invention for—" Certain improvements in looms for weaving, which said improvements are particularly applicable to looms for weaving carpets and other looped or piled fabrics." *Letters Patent sealed.*

LAWRENCE. 21st March 1857.

792. THOMAS LAWRENCE, of Salford, in the County of Lancaster, Engineer, for an invention for—" Certain improvements in steam-engines." *Provisional protection only.*

BANKS. BANKS. 21st March 1857.

793. WILLIAM BANKS, and JOHN BANKS, of Bolton, in the County of Lancaster, Bleachers, for an invention for—" Certain improvements in machinery or apparatus to be employed for washing, scouring or bleaching cotton, linen, and other textile fabrics." *Letters Patent sealed.*

LAFONE. 21st March 1857.

794. HENRY LAFONE, of Liverpool, in the County of Lancaster, Tanner, for an invention for—" Improvements in tanning." *Provisional protection only.*

PERROTT. 21st March 1857.

795. GEORGE PERROTT, of Cork, in the Kingdom of Ireland, Iron Founder and Millwright, for an invention for—" Improvements in horse gearing." *Letters Patent sealed.*

HEMMING. 21st March 1857.

796. SAMUEL HEMMING, of Bow, in the County of Middlesex, Portable Building Manufacturer, for an invention for—" A new or improved material for roofing or other building purposes." *Provisional protection only.*

BROOMAN. 21st March 1857.

797. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, E.C., Patent Agent, for an invention for—" An improved method of driving the spindles of spinning-frames."—*A communication.* *Provisional protection only.*

GUNTHER. 21st March 1857.

798. GUSTAV JULIUS GUNTHER, of John Street, in the City of London, Gentleman, for an invention for—" Improvements in preparing blocks and stones for building purposes." *Provisional protection only.*

COLE. 21st March 1857.

799. JAMES EDWARD COLE, of New York, United States of America, Ship Master, for an invention for—" Improvements in the rig and working the sails of square sail vessels." *Letters Patent sealed.*

CROOKER. 21st March 1857.

800. MATTHEW AUGUSTUS CROOKER, of New York, United States of America, Engineer, for an invention for—" Improvements in paddle wheels." *Letters Patent sealed.*

MUSHET. 21st March 1857.

801. ROBERT MUSHET, of Coleford, in the County of Gloucester, Metallurgist, for an invention for—"Improvements in the manufacture of cast steel." *Provisional protection only.*

MUSHET. 21st March 1857.

802. ROBERT MUSHET, of Coleford, in the County of Gloucester, Metallurgist, for an invention for—"Improvements in the manufacture of cast steel." *Provisional protection only.*

HEMMING. 21st March 1857.

803. FREDERICK SHAND HEMMING, of Westminster, in the County of Middlesex, Mining Agent and Engineer, for an invention for—"Improvements in the mode of treating peat mixed or not mixed with other vegetable or animal fibrous substances, and in the application of the same to various purposes." *Provisional protection only.*

BLACKBURN. 21st March 1857.

804. BEWICKE BLACKBURN, of Clapham Common, in the County of Surrey, for an invention for—"Improvements in the manufacture of pens." *Letters Patent sealed.*

HEAD. WRIGHT. 21st March 1857.

805. THOMAS HOWARD HEAD, and JOSEPH WRIGHT, of the Teesdale Iron Works, Stockton-on-Tees, Engineers and Iron Founders, for an invention for—"Improvements in casting railway chairs and in the manufacture of other castings." *Letters Patent sealed.*

HYDE. 21st March 1857.

806. EDMUND HYDE, of Kingston-upon-Thames, in the County of Surrey, Gentleman, for an invention for—"Improvements in the manufacture of fabrics from products of the husks of cocoa nuts." *Letters Patent sealed.*

DOLBY. DOLBY. 21st March 1857.

807. HENRY DOLBY, and EDWIN THOMAS DOLBY, of 56, Regent Street Quadrant, in the County of Middlesex, for an invention for—"Improvements in machinery used when printing several colours in succession on the same surface." *Letters Patent sealed.*

NORMANDY. 23rd March 1857.

808. LOUIS A. NORMANDY, Junior, of 67, Judd Street, Brunswick Square, London, in the County of Middlesex, for an invention for—"An improved process for manufacturing iron."—*A communication from Leopold D'Aubréville, of No. 36, Rue de l'Echiquier, Paris, in the Empire of France.* *Provisional protection only.*

HEAP. 23rd March 1857.

809. WILLIAM HEAP, Machinist, Ashton-under-Lyne, in the County of Lancaster, for an invention for—"Certain improvements in self-acting slide lathes." *Letters Patent sealed.*

NUTTALL. 23rd March 1857.

810. THOMAS NUTTALL, of Farnworth, near Manchester, in the County of Lancaster, Spindle and Flyer Manufacturer, for an invention for—"An improvement or improvements in machinery for preparing cotton, flax, wool, or other fibrous materials." *Provisional protection only.*

SHERAR. 23rd March 1857.

811. JOHN SHERAR, of Aberdeen, in the County of Aberdeen, North Britain, Ironmonger, for an invention for—"Improvements in oil and spirit lamps by the formation of burners obviating shadow." *Letters Patent sealed.*

ROWLAND. 23rd March 1857.

812. ELLIS ROWLAND, of Manchester, in the County of Lancaster, Engineer, for an invention for—"Certain improvements in steam-engines." *Provisional protection only.*

MILLS. 23rd March 1857.

813. WILLIAM MILLS, of Lower Craven Place, Kentish Town, in the County of Middlesex, for an invention for—"Improvements in the action of upright pianofortes." *Provisional protection only.*

SMITH. 23rd March 1857.

814. JOHN SMITH, of 4, Albion Square, South side, Dalston, in the County of Middlesex, for an invention for—"An improvement in applying steam or other aëriform fluids expansively in engines." *Letters Patent sealed.*

SMITH. BURKE. 23rd March 1857.

815. THOMAS MOSDELL SMITH, of Hammersmith, and CORNELIUS BURKE, of 27, Earl Street, Kensington, for an invention for—"Improvements in the preparation of materials applicable to the manufacture of candles." *Letters Patent sealed.*

BARANOWSKI. 23rd March 1857.

816. JEAN JOSEPH BARANOWSKI, of Paris, in the Empire of France, Gentleman, for an invention for—"An improved method of and apparatuses for signalling upon railways." *Letters Patent sealed.*

JONES. 23rd March 1857.

817. FREDERICK JOHN JONES, of Aldermanbury, in the City of London, Warehouseman, for an invention for—"An improved buckle or fastening." *Letters Patent sealed.*

CHASTAGNON. 23rd March 1857.

818. MARIUS CHASTAGNON, of the Pouzin, Ardéche, France, and of 45, Essex Street, Strand, London, for an invention for—"Improvements in twyers for blast furnaces." *Provisional protection only.*

COLLYER. 24th March 1857.

819. ROBERT HANHAM COLLYER, M.D., of No. 3, Park Road, Regent's Park, London, County of Middlesex, for an invention for—"Improved machine for cleaning and purifying wheat and other grain." *Letters Patent sealed.*

TANGYE. TANGYE. 24th March 1857.

820. JAMES TANGYE, of Birmingham, in the County of Warwick, Engineer, and JOSEPH TANGYE, of Birmingham aforesaid, Engineer, for an invention for—"A new or improved lifting jack." *Provisional protection only.*

ZIBELIN. 24th March 1857.

821. JEAN ALEXANDRE ZIBELIN, Gentleman, of Paris, in the French Empire, and of 45, Essex Street, Strand, London, for an invention for—"Improvements in the fabrication of artificial wines, brandy, and vinegar." *Provisional protection only.*

HALL. 24th March 1857.

822. THOMAS YOUNG HALL, of the Town and County of Newcastle-upon-Tyne, Coal Owner, for an invention for—"Improvements in steam gauges and water indicators." *Provisional protection only.*

NEWTON. 24th March 1857.

823. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"Improvements in carding-engines."—*A communication.* *Provisional protection only.*

FOX. 24th March 1857.

824. SAMUEL FOX, of Deepcar, Sheffield, for an invention for—"Improvements in hardening and tempering steel wire, and in straightening wire." *Letters Patent sealed.*

LAWES. 24th March 1857.

825. THOMAS LAWES, of the Office for Patents, 77, Chancery Lane, in the County of Middlesex, for an invention for—"An improved construction of agricultural implement to be used in tilling the land." *Letters Patent sealed.*

OUDRY. 25th March 1857.

826. CHARLES FRANÇOIS LEOPOLD OUDRY, of Auteuil, near Paris, in the Empire of France, now of 4, South Street, Finsbury, London, Electro-Metallurgist, for an invention for—"Improvements in the preservation of articles of cast, wrought, rolled, and forged iron, zinc, and other metals or alloys of metals, against oxydation from humidity and other destructive effects of air and water." *Letters Patent sealed.*

COLLINS. 25th March 1857.

827. WILLIAM HENRY COLLINS, of Birmingham, in the County of Warwick, Factor, for an invention for—"Improvements in attaching knobs to spindles." *Letters Patent sealed.*

LAWES. 25th March 1857.

828. THOMAS LAWES, of the Office for Patents, 77, Chancery Lane, in the County of Middlesex, for an invention for—"A machine or apparatus to be used in cleansing, purifying, and drying animal and vegetable substances." *Letters Patent sealed.*

MICKLE. 25th March 1857.

829. JOHN MICKLE, of Newcastle-upon-Tyne, in the County of Northumberland, for an invention for—"Improvements in machinery or apparatus for reaping and mowing." *Provisional protection only.*

EARLY. EDMONDS. 25th March 1857.

830. GEORGE DOUGLASS EARLY, of Camberwell, in the County of Surrey, Artist, and JOHN WILLIAM EDMONDS, of the same place, Gentleman, for an invention for—"A method of producing glass designs, figures, and patterns." *Provisional protection only.*

HEWETT. 25th March 1857.

831. JOHN HEWETT, of Sheffield, in the County of York, Public Accountant, for an invention for—"Improvements in sewing-machines."—*A communication.* *Letters Patent sealed.*

HILL. 25th March 1857.

832. PEARSON HILL, of Hampstead, in the County of Middlesex, for an invention for—"Improvements in machinery for stamping, marking, or printing, and arranging papers, letters, and other articles. *Letters Patent sealed.*

NEWTON. 25th March 1857.

833. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"An improved construction of water meter."—*A communication.* *Letters Patent sealed.*

SIMS. 25th March 1857.

834. REUBEN SIMS, of the firm of Picksley, Sims & Co. of Bedford, near Leigh, in the County of Lancaster, Agricultural Implement Makers and Iron Founders, for an invention for—"Improvements in machinery or apparatus for cutting hay, straw, and other similar substances." *Letters Patent sealed.*

HENDERSON. 25th March 1857.

835. JOHN HENDERSON, of Lasswade, in the County of Midlothian, North Britain, Gentleman, for an invention for—"Improvements in writing instruments." *Provisional protection only.*

HENDERSON. 25th March 1857.

836. JOHN HENDERSON, of Lasswade, in the County of Midlothian, North Britain, Gentleman, for an invention for—"Improvements in the manufacture or production of plain and figured fabrics." *Letters Patent sealed.*

SOMERVAIL. 25th March 1857.

837. WILLIAM SOMERVAIL, of Dunlop, in the County of Ayr, North Britain, Wool Spinner, for an invention for—"Improvements in the treatment or preparation of fibrous materials for being spun." *Letters Patent sealed.*

CASSELS. MORTON. 25th March 1857.

838. ROBERT CASSELS, of Glasgow, in the County of Lanark, North Britain, Iron Manufacturer, and THOMAS MORTON, of Motherwell, in the same County, Manager, for an invention for—"Improvements in the manufacture of iron." *Letters Patent sealed.*

COWPER. 25th March 1857.

839. CHARLES COWPER, of 20, Southampton Buildings, Chancery Lane, in the County of Middlesex, Patent Agent, for an invention for—"Improvements in the manufacture of shot and shells for rifled ordnance."—*A communication from J. M. Sigourney, of Watertown, in the County of Jefferson, in the State of New York, in the United States of North America.* *Letters Patent sealed.*

ALLAIRE. 25th March 1857.

840. SIMON MARTIN ALLAIRE, of Paris, in the Empire of France, Manufacturer, for an invention for—"Improvements in manufacturing hats, caps, and bonnets." *Letters Patent sealed.*

WILSON. 25th March 1857.

841. JOSEPH WILLIAM WILSON, of Banbury, in the County of Oxford, Engineer, for an invention for—"Improvements in the cutting tools used for rounding, surfacing, or otherwise operating on wood." *Letters Patent sealed.*

RADCLIFFE. FEARNEHOUGH. MATHER. 26th March 1857.

842. JOHN RADCLIFFE, Overlooker, JAMES FEARNEHOUGH, Weaver, and JOSEPH MATHER, Joiner, all of the Parish of Eccles, in the County of Lancaster, for an invention for—"Certain improvements in index machines applicable to looms for weaving." *Letters Patent sealed.*

LANE. 26th March 1857.

843. URIAH LANE, of No. 46, Regency Square, Brighton, for an invention for—"An improvement in the transmission of motive-power."—*Provisional protection only.*

BAKER. 26th March 1857.

844. CHARLES HENRY BAKER, of Number 7, Angel Court, in the City of London, Gentleman, for an invention for—"Railways Passengers' signal alarum." *Provisional protection only.*

CLARK. 26th March 1857.

845. WILLIAM THOMAS CLARK, of No. 11, Cottage Place, City Road, Saint Luke's, in the County of Middlesex, for an invention for—"A portable metallic spring mattress." *Letters Patent sealed.*

WHITE. 26th March 1857.

846. GEORGE WHITE, of No. 5, Laurence Pountney Lane, Cannon Street, in the City of London, for an invention for—"Improvements in glass furnaces."—*A communication.* *Letters Patent sealed.*

TOMASINI. 26th March 1857.

847. DOMENICO TOMASINI, of Great Coram Street, in the County of Middlesex, Upholsterer, for an invention for—"Improvements in the construction of easy chairs and chamber commodes." *Letters Patent sealed.*

BENOIST. 26th March 1857.

848. JEAN JACQUES CONSTANT BENOIST, of No. 42, Rue Jerusalem, Brussels, in the Kingdom of Belgium, for an invention for—"A new method of applying marks on paper for postal purposes." *Provisional protection only.*

BUTLER. 26th March 1857.

849. AUGUSTUS FREDERICK BUTLER, of the Island of Ceylon, for an invention for—"Improvements in machinery for pulping coffee." *Letters Patent sealed; no specification filed.*

CLARK. 26th March 1857.

850. JOSIAH LATIMER CLARK, of 35, Adelaide Road, Haverstock Hill, in the County of Middlesex, for an invention for—"Improvements in lighting coal mines." *Provisional protection only.*

PALMER. 26th March 1857.

851. JASON J. PALMER, of the City and State of New York, in the United States of America, for an invention for—"Improvements in the construction of steam-boilers." *Provisional protection only.*

MORRIS. 26th March 1857.

852. JAMES MORRIS, of Albert Square, Clapham Road, in the County of Surrey, Gentleman, for an invention for—"Certain improvements in connecting the rails of railways." *Letters Patent sealed.*

WHITE. 26th March 1857.

853. GEORGE WHITE, of Port Glasgow, in the County of Renfrew, North Britain, Manufacturer, for an invention for—"Improvements in weaving." *Letters Patent sealed.*

RUALEM.
26th March 1857.

854. FRANÇOIS RUALEM, of 29, Rue de Paris, Belleville, in the Empire of France, Milkman, for an invention for—"Improvements in railway breaks."—*A communication.* *Provisional protection only.*

VON LÖWENSTEIN.
27th March 1857.

855. EMIL VON LÖWENSTEIN, of No. 3, New Street, Bishopsgate Street, in the City of London, Inspector of Mines, for an invention for—"Improvements in the construction of ovens for the manufacture of coke." *Letters Patent sealed.*

DELON.
27th March 1857.

856. ALEXANDER DELON, of 39, Rue de l'Echiquier, Paris, in the Empire of France, and of 4, South Street, Finsbury, London, Gentleman, for an invention for—"An improved mould for the manufacture of buttons."—*Provisional protection only.*

HOCHSTETTER.
27th March 1857.

857. EDOUARD HOCHSTETTER, of Paris, in the French Empire, Gentleman, for an invention for—"The employment for motive purposes of sulphuret of carbon, an agent not hitherto so used."—*Partly a communication from Augustus Seyferth, of Langens alza, Prussia.* *Provisional protection only.*

SPURR.
27th March 1857.

858. EDMUND ALEXANDER SPURR, of Newton Road, Bayswater, in the County of Middlesex, Architect, for an invention for—"Improvements in fireplaces, chimnies and stove grates." *Letters Patent sealed.*

SUGDEN.
BRIGGS.
27th March 1857.

859. GEORGE SUGDEN, and JONAS BRIGGS, of Bradford, in the County of York, Spinners and manufacturers, for an invention for—"Improved machinery for weaving checks or figured fabrics." *Provisional protection only.*

GILMOUR.
27th March 1857.

860. GEORGE GILMOUR, of the State of Massachusetts, of the United States of America, for an invention for—"A new and useful contrivance or mechanism for shackling or attaching another anchor to the chain of an anchor to which a vessel may be riding, his said invention being termed by him a 'a second anchor shackle.'" *Complete specification; Letters Patent sealed.*

MARTIN.
27th March 1857.

861. CHARLES MARTIN, of 87, Castle Street, Reading, in the County of Berks, Civil Engineer, for an invention for—"Improvements in working signal apparatus on railways." *Letters Patent sealed.*

WARD.
27th March 1857.

862. JOHN WARD, of Glasgow, in the County of Lanark, North Britain, Manufacturing Chemist, for an invention for—"Improvements in the manufacture or production of manures or fertilizing agents." *Provisional protection only.*

ROSS.
27th March 1857.

863. WILLIAM ROSS, of Glasgow, in the County of Lanark, North Britain, Plumber, for an invention for—"Improvements in apparatus for regulating the passage of fluids." *Letters Patent sealed.*

THOMSON.
28th March 1857.

864. DAVID THOMSON, of Pimlico, in the County of Middlesex, Engineer, for an invention for—"Improvements in rotary pumps." *Letters Patent sealed.*

COWLEY.
28th March 1857.

865. JOHN COWLEY, of Quenington Paper Mills, Quenington. Gloucestershire, for an invention for—"Improvements in the manufacture of paper and in utilising certain refuse therefrom." *Provisional protection* NOT *granted.*

JOSSA.
28th March 1857.

866. FERDINAND JOSSA, of St. Helen's Colliery, near Bishop's Auckland, in the County of Durham, for an invention for—"Improvements in furnaces and ovens for the prevention of smoke and for economy of fuel." *Letters Patent sealed.*

BEAUMONT.
28th March 1857.

867. EDWARD BLACKETT BEAUMONT, of Woodhall, Barnsley, in the County of York, for an invention for—"Improvements in lamps and apparatus used in coal mines." *Provisional protection only.*

RUSSEL.
28th March 1857.

868. ROBERT RUSSEL, of Manchester, in the County of Lancaster, Engineer, for an invention for—"Improvements in railway turntables."—*Provisional protection only.*

GIRARD.
28th March 1857.

869. HIPPOLYTE BENIGNE GIRARD, of Paris, in the Empire of France, Chemist, for an invention for—"Improvements in insulating telegraphic wires or conductors, and in apparatus for stretching such wires." *Letters Patent sealed.*

DEPLANQUE.
28th March 1857.

870. LOUIS ETIENNE DEPLANQUE, of 39, Rue de l'Echiquier, Paris, in the Empire of France, and of No 4, South Street, Finsbury, London, for an invention for—"An improved composition for sharpening and setting fine edged cutting instruments." *Letters Patent sealed.*

RUSSELL.
28th March 1857.

871. JOHN JAMES RUSSELL, of Wednesbury, in the County of Stafford, Metal tube Manufacturer, for an invention for—"Improvements in the manufacture of metal tubes." *Letters Patent sealed and specification filed by order.*

THURSFIELD. 28th March 1857.

872. JOSEPH THURSFIELD, of Congleton, in the County of Chester, Plumber and Glazier, for an invention for—"An improved water ram for raising water."
Provisional protection only.

NEILD. SUTCLIFFE. 30th March 1857.

873. ARTHUR NEILD, and NATHANIEL BUCKLEY SUTCLIFFE, both of Ashton-under-line, in the County of Lancaster, Cotton Spinners, for an invention for—"Improvements in treating or cleansing certain descriptions of cotton waste."
Letters Patent sealed.

TAYLOR. 30th March 1857.

874. JOHN HORACE TAYLOR, of 24, Alma Street, Hoxton, in the County of Middlesex, Engineer, for an invention for—"Improvements in apparatus for regulating the flow of fluids, applicable to waterclosets and other similar purposes."
Provisional protection only.

JACK. 30th March 1857.

875. DAVID JACK, of Glasgow, in the County of Lanark, North Britain, Mechanic, for an invention for—"Improvements in washing or cleansing textile fabrics and materials." *Letters Patent sealed.*

SCOTT. 30th March 1857.

876. JOSEPH SCOTT, of Glasgow, in the County of Lanark, North Britain, Glass Manufacturer, for an invention for—"Improvements in bottles and their stoppering or closing details." *Letters Patent sealed.*

CHILDS. 30th March 1857.

877. WILLIAM CHILDS the younger, of Brighton, in the County of Sussex, Manufacturer, for an invention for—"Improvements in the construction of expansible boxes, cases, and receptacles." *Letters Patent sealed.*

CUDWORTH. 30th March 1857.

878. JAMES JANSON CUDWORTH, of Ashford, in the County of Kent, Engineer, for an invention for—"Improvements in locomotive boiler furnaces."
Provisional protection only.

JOHNSON. 30th March 1857.

879. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of 166, Buchanan Street, in the City of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in warming and ventilating apartments."—*A communication from Daniel Leasure, of Newcastle, Pennsylvania, in the United States of America."* *Letters Patent sealed.*

THOMAS. 30th March 1857.

880. RICHARD HANDLEY THOMAS, of Kidsgrove, in the County of Stafford, Machinist, for an invention for—"Improved machinery for converting plastic substances into spherical forms or balls." *Provisional protection only.*

GRANGER. 30th March 1857.

881. ARTHUR GRANGER, of High Holborn, in the County of Middlesex, Stationer, for an invention for—"An improved manufacture of safety envelope."
Provisional protection only.

D'ARCET. 31st March 1857.

882. JEAN EUGÈNE D'ARCET, of Paris, in the Empire of France, Chemist, for an invention for—"Improvements in distilling and rectifying tar, resin, oils, turpentine, bitumen and other matters, and in the apparatus for the same."
Letters Patent sealed.

QUINCHE. 31st March 1857.

883. ANTOINE JOSEPH QUINCHE, of Paris, in the Empire of Frauce, Mechanician, for an invention for—"Improvements in apparatus for counting, registering, and indicating the distance travelled by vehicles."
Complete Specification; Letters Patent sealed.

FRANCIS. 31st March 1857.

884. HENRY FRANCIS, of No. 456, West Strand, in the County of Middlesex, Engineer, for an invention for—"Improvements in machinery for ploughing and working land." *Provisional protection only.*

EVANS. 31st March 1857.

885. JOHN CAMPBELL EVANS, of South Lambeth, in the County of Surrey, Engineer, for an invention for—"Improvements in railway rolling stock."
Provisional protection only.

HAMILTON. 31st March 1857.

886. GEORGE HAMILTON, of Blackland Mill, Paisley, in the County of Renfrew, North Britain, Bleacher, for an invention for—"Improvements in the treatment or finishing of woven fabrics." *Letters Patent sealed.*

GOODE. 31st March 1857.

887. SAMUEL JABEZ GOODE, of Aston, near Birmingham, in the County of Warwick, Machinist, for an invention for—"An improvement or improvements in depositing metallic alloys by electricity." *Letters Patent sealed.*

HILLS. 31st March 1857.

888. FRANK CLARKE HILLS, of Deptford, in the County of Kent, Manufacturing Chemist, for an invention for—"Improvements in manufacturing gas, and in apparatus connected therewith." *Letters Patent sealed; no specification filed.*

LAUDER. IRELAND. 31st March 1857.

889. GEORGE LAUDER, of Dunfermline, in the County of Fife, North Britain, Merchant, and THOMAS IRELAND, of the same place, also Merchant, for an invention for—" Improvements in the manufacture of brine to be used in the manufacture of salt." *Letters Patent sealed; no specification filed.*

WRIGHT. 31st March 1857.

890. JOSIAH WRIGHT, of Hemel Hempstead, in the County of Herts, Plait Dyer and Bleacher, for an invention for—" An improved method of bleaching straw plait and straw."—*A communication.* *Provisional protection only.*

GRAHAM. 31st March 1857.

891. JOHN GRAHAM, of Ann Street, Devonport Street, Commercial Road East, in the County of Middlesex, Pattern Maker, for an invention for—" An improved steering apparatus." *Letters Patent sealed.*

GLOVER. 31st March 1857.

892. WILLIAM GLOVER, of Manchester, in the County of Lancaster, Professor of Music, for an invention for—" Improvements in looms for weaving." *Provisional protection only.*

DURANT. 31st March 1857.

893. ANGUISH HONOUR AUGUSTUS DURANT, of the Conservative Club, St. James's, in the County of Middlesex, Esquire, for an invention for—" Certain Improvements in omnibuses." *Provisional protection only.*

WRIGHT. FOUCHÉ. 1st April 1857.

894. ROBERT ALFRED WRIGHT, of Batignolles, near Paris, Civil Engineer, and LOUIS JULES FOUCHÉ, of Paris, Steam-boiler Maker, for an invention for—" A new apparatus destined to produce chemical decompositions by means of superheated steam and water." *Letters Patent sealed.*

ILES. 1st April 1857.

895. CHARLES ILES, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—" Improvements in bolts for doors."—*Provisional protection only.*

BURTON. 1st April 1857.

896. WILLIAM SAMUEL BURTON, of Oxford Street, in the County of Middlesex, Merchant and Manufacturer, for an invention for—" A new or improved manufacture of rollers or cylinders for printing fabrics." *Provisional protection only.*

PAUL. 1st April 1857.

897. BENJAMIN HORATIO PAUL, of Torrington Street, Torrington Square, in the County of Middlesex, Chemist, for an invention for—" Improvements in the preservation of stone either natural or artificial, also of cements and other similar compositions." *Letters Patent sealed.*

LEE. 1st April 1857.

898. RICHARD EGAN LEE, of Number 3, Giltspur Street, in the City of London, Printer, for an invention for—" A portable printing apparatus adapted alike for moveable type, lithography, and copper plate." *Complete Specification; protection for* SIX *months only.*

GREVES. 1st April 1857.

899. CHARLES GREVES, of St. Thomas Street, Southwark, Gun Maker, for an invention for—" Improvements in breech loading guns and pistols." *Provisional protection only.*

LESLIE. 1st April 1857.

900. JOHN LESLIE, of Glasgow, in the County of Lanark, North Britain, Merchant, for an invention for—" Improvements in the treatment of wash waters containing soap, oils, saponified or saponifiable matters, for the obtainment of products therefrom."—*A communication.* *Letters Patent sealed; no specification filed.*

ADAM. 1st April 1857.

901. ROBERT ADAM, of Paisley, in the County of Renfrew, North Britain, Manager, for an invention for—" Improvements in preparing and finishing threads or yarns." *Letters Patent sealed.*

SMITH. 1st April 1857.

902. WILLIAM SMITH, of Glasgow, in the County of Lanark, North Britain, Manager, for an invention for—" Improvements in the manufacture or production of ornamental fabrics." *Letters Patent sealed.*

PERIN. 1st April 1857.

903. LAMBERT PERIN, Engineer, residing in Paris, No. 2, Rue Barbette, for an invention for—" The easy discovery of flaws and escapes in gas pipes." *Provisional protection only.*

WARDELL. 1st April 1857.

904. ROBERT WARDELL, of Stanwick, in the County of York, for an invention for—" Certain improvements in reaping-machines." *Letters Patent sealed.*

SUGDEN. 1st April 1857.

905. JOHN SUGDEN, of Bradford, in the County of York, Machine Wool-comb Maker, for an invention for—" Improvements in the manufacture of combs for combing wool, silk, cotton, flax or other fibrous materials." *Provisional protection only.*

SMITH. 1st April 1857.

906. HENRY SMITH, of the firm of Smith and Ashby, of Stamford, in the county of Lincoln, Agricultural Implement Maker, for an invention for—"Improvements in chaff-cutting machines." *Letters Patent sealed.*

NEWTON. 1st April 1857.

907. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"Certain improvements in fire-arms."—*A communication.* *Letters Patent sealed.*

CROSSLEY. 1st April 1857.

908. JOHN CROSSLEY, of St. Helen's, Lancashire, Glass Manufacturer, for an invention for—"Improvements in machinery for smoothing glass." *Provisional protection only.*

OLIVER. 1st April 1857.

909. JOHN OLIVER, of 28, Bow Lane, Poplar, in the County of Middlesex, for an invention for—"Improvements in apparatus for manufacturing and conveying sulphuric acid." *Letters Patent sealed.*

MARTIN. SUTTON. 1st April 1857.

910. ROBERT MARTIN, of No. 14, Cambridge Road, King's Cross, and JOSEPH WALTER SUTTON, of 32, Lamb's Conduit Street, both in the County of Middlesex, for an invention for—"Improvements in the means of giving alarm in dwellinghouses and other buildings in cases of robbery, fire, or other emergencies." *Provisional protection only.*

LOWRY. 2nd April 1857.

911. GEORGE LOWRY, of Salford, in the County of Lancaster, Machinist, for an invention for—"Certain improvements in machinery for heckling flax and other fibrous materials." *Letters Patent sealed.*

LAURECISQUE. 2nd April 1857.

912. FRANÇOIS AUGUSTE LAURECISQUE, of No. 39, Rue de l'Echiquier, Paris, in the Empire of France, and of No. 4, South Street, Finsbury, London, Gentleman, for an invention for—"An improved system of constructing dissected maps or charts." *Letters Patent sealed.*

WIELAND. 2nd April 1857.

913. JOHN FREDERICK WIELAND, of Glasgow, in the County of Lanark, North Britain, Gentleman, for an invention for—"Improvements in portable apparatus and materials for cleaning the teeth." *Provisional protection only.*

HUSBAND. 2nd April 1857.

914. RICHARD HUSBAND, of Manchester, in the County of Lancaster, Hat Manufacturer, for an invention for—"Certain improvements in the manufacture of hats and other coverings for the head, and in the instruments employed in the said manufacture." *Provisional protection only.*

HOLDEN. 2nd April 1857.

915. HOWARD ASHTON HOLDEN, of Bingley Works, Birmingham, in the County of Warwick, Railway and General Carriage Furniture and Lamp Manufacturer, for an invention for—"Certain improvements in carriage lamps and general carriage and harness furniture and fittings." *Provisional protection only.*

MORRISON. LILLEY. 2nd April 1857.

916. DUNCAN MORRISON, of Bordesley Works, Birmingham, in the County of Warwick, and SAMUEL LILLEY, of Birmingham, aforesaid, Engineer and Machinist for an invention for—"An improvement or improvements in locks." *Letters Patent sealed.*

MAW. 2nd April 1857.

917. EDWIN MAW, of the Doncaster Iron Works, Yorkshire, for an invention for—"An improvement in the construction of the points of railway crossings." *Letters Patent sealed.*

OTWAY. 2nd April 1857.

918. ROBERT OTWAY, of Lambeth, in the County of Surrey, Engineer, for an invention for—"An improvement in scythes." *Letters Patent sealed.*

BROOMAN. 2nd April 1857.

919. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, E.C., Patent Agent, for an invention for—"Improvements in treating and bleaching fibrous vegetable substances, and in machinery employed therein."—*A communication from Henri Bouchet.* *Provisional protection only.*

BROOMAN. 2nd April 1857.

920. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, E.C., Patent Agent, for an invention for—"A steam windlass and boiler for the same, together with certain modifications to enable the windlass to be worked by hand."—*A communication.* *Letters Patent sealed.*

NEWTON. 2nd April 1857.

921. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"Improvements in repeating fire-arms."—*A communication.* *Letters Patent sealed.*

HARDMAN. DUGDALE. 3rd April 1857.

922. WILLIAM HARDMAN, of Farnworth, near Manchester, in the County of Lancaster, and JAMES DUGDALE, also of the same place, Spindle and Flyer Manufacturers, for an invention for—"Improvements in machinery for preparing cotton, flax, wool, or other fibrous materials." *Letters Patent sealed; Specification filed by order.*

BOX. 3rd April 1857.

923. WILLIAM HENRY BOX, of East Looe, in the County of Cornwall, Gentleman, for an invention for—"An improved fish hook." *Letters Patent sealed.*

HOLLAND. 3rd April 1857.

924. WILLIAM HOLLAND, of Birmingham, in the County of Warwick, Tool Maker, for an invention for—"A new or improved manufacture of runner notches and top notches for umbrellas and parasols." *Provisional protection only.*

BARKER. 3rd April 1857.

925. STEPHEN BARKER, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"An improvement or improvements in the manufacture of steel." *Provisional protection only.*

TAPLIN. 3rd April 1857.

926. WILLIAM HENRY TAPLIN, of London, in the County of Middlesex, for an invention for—"Improvements in the construction of fireplaces and stoves." *Provisional protection only.*

BROOMAN. 3rd April 1857.

927. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street in the City of London, E.C., Patent Agent, for an invention for—"A machine for the manufacture of bolts and rivets."—*A communication.* *Letters Patent sealed.*

SMITH. 3rd April 1857.

928. JOHN SMITH, of Bradford, in the County of York, Machine Maker, for an invention for—"Improvements in machinery or apparatus used in the manufacture of brushes for flour dressing machines." *Letters Patent sealed.*

JOY. 3rd April 1857.

929. DAVID JOY, of Leeds, in the County of York, Engineer, for an invention for—"Improvements in steam-engines." *Letters Patent sealed.*

PAGET. 3rd April 1857.

930. ARTHUR PAGET, of Loughborough, in the County of Leicester, Manufacturer, for an invention for—"Improvements in machinery or apparatus for the manufacture of looped fabrics, and in the manner of constructing the same."—*Letters Patent sealed.*

CRADDOCK. 3rd April 1857.

931. THOMAS CRADDOCK, of 137, Tachbrook Street, Pimlico, in the County of Middlesex, Engineer, for an invention for—"Certain improvements in the steam-engine and steam-boiler." *Letters Patent sealed.*

WHITEHEAD. 3rd April 1857.

932. THOMAS WHITEHEAD, of the firm of Taylor, Wordsworth and Company, of Leeds, in the County of York, Machine and Tool Makers, for an invention for—"Improvements in spinning flax, tow, and hemp." *Letters Patent sealed.*

BAUDOUIN. 3rd April 1857.

933. FELIX MARIE BAUDOUIN, of Paris, in the Empire of France, Manufacturer, for an invention for—"Improvements in the wires or conductors of electric telegraphs, and in the machinery for the manufacture thereof." *Letters Patent sealed.*

JOHNSON. 3rd April 1857.

934. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of 166, Buchanan Street, in the City of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in the treatment of floss silk."—*A communication from Edmond Royer, and Felix Rouse, of Paris, in the Empire of France, Silk Manufacturers.* *Letters Patent sealed.*

BOURNE. 4th April 1857.

935. JOHN BOURNE, of No. 9, Billiter Street, in the County of Middlesex, Civil Engineer, for an invention for—"The generation and application of motive-power." *Letters Patent sealed.*

TOUSSAINT. 4th April 1857.

936. JOSEPH FERDINAND TOUSSAINT, Notary Public, of the City of Brussels, in the Kingdom of Belgium, for an invention for—"A method for facilitating the examination and discovery of fissures, flaws, or deteriorations in the inserted or hidden parts of axles or other like pieces of machinery subject to decay and rupture." *Provisional protection only.*

HARVEY. SMITH. 4th April 1857.

937. HENRY HARVEY and ROBERT SMITH, both of No. 22, Surrey Street, Strand, in the County of Middlesex, for an invention for—"Improvements in raising sunken ships, other vessels, and all other matters and things from under to the surface of the water, and to prevent their sinking." *Provisional protection only.*

SPENCER. 4th April 1857.

938. GEORGE SPENCER, Civil Engineer, of No. 6, Cannon Street West, London, for an invention for—"Improvements in machines used for facilitating the discharge of coals, minerals, earths and other similar materials, from waggons used on railways, tramways, and common roads." *Letters Patent sealed.*

ADLER. HOWELL. 4th April 1857.

939. ELKAN ADLER, of the City of New York, in the United States of America, now residing at 133, High Holborn, Middlesex, and FRANCIS BARBER HOWELL, of the City of Lebanon, in the State of Ohio, in the United States of America, now residing at 36, High Holborn, Middlesex, for an invention for—"Improvements in machines for cleaning knives and other similar articles." *Letters Patent sealed.*

ADLER. ABERNETHY. 4th April 1857.

940. ELKAN ADLER, of the City of New York, in the United States of America, now residing at 133, High Holborn, Middlesex, and ROBERT PARKER ABERNETHY, of Cincinnati, in the State of Ohio, in the United States of America, now residing at 36, High Holborn, Middlesex, for an invention for—"Improvements in machines for cleaning knives and other similar articles." *Provisional protection only.*

AUSTEN. 4th April 1857.

941. JOHN AUSTEN, of 33, Rue des Martyres, Paris, in the Empire of France, Gentleman, for an invention for—"Certain improvements for extracting silk and other textile and vegetable substances from the bark and leaves of every description of mulberry trees." *Provisional protection only.*

RENSHAW. 4th April 1857.

942. CHARLES RENSHAW, of Dukinfield, in the County of Chester, Engineer and Millwright, for an invention for—"Improvements in self acting differential valves." *Letters Patent sealed.*

LECLERCQ. 4th April 1857.

943. ADOLPHE LECLERCQ, Iron Manufacturer, of Frith St. Leger, near Valenciennes, Town in the French Empire, for an invention for—"Certain improvements in sleepers of railways." *Provisional protection only.*

MILNES. MOWBRAY. 4th April 1857.

944. JAMES MILNES, of Bradford, in the County of York, Engineer, and FREDERICK WILLIAM MOWBRAY, of Bradford, in the same County, Civil Engineer, for an invention for—"Improvements in lubricating the pistons and valves of steam-engines." *Letters Patent sealed.*

BIRKIN. BIRKIN. 4th April 1857.

945. RICHARD BIRKIN, Junior, and THOMAS ISAAC BIRKIN, of Nottingham, Lace Manufacturers, for an invention for—"Improvements in the manufacture of figured lace." *Letters Patent sealed.*

MEAD. MEAD. 4th April 1857.

946. JOB MEAD, of Bethnal Green, and GEORGE MEAD, of the same place, in the County of Middlesex, Iron Plate Workers, for an invention for—"Improvements in metallic and other packing boxes or cases." *Provisional protection only.*

TESTERLIN. 4th April 1857.

947. EMILE TESTERLIN, living in the City of Ghent, Kingdom of Belgium (Plaine St. Pierre, No. 22), for an invention for—"A new system for the application of electricity as moving power." *Letters Patent sealed.*

JOHNSON. 4th April 1857.

948. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of 166, Buchanan Street, in the City of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in the manufacture of hard india-rubber."—*A communication from Madame Anna Chadbourne Morey, of Paris, in the Empire of France, Widow of Charles Morey, of the same place, Esquire, deceased.* *Letters Patent sealed.*

SUMNER. 4th April 1857.

949. WILLIAM SUMNER, of Preston, in the County of Lancaster, Spindle Maker, for an invention for—"Improvements in machinery or apparatus for preparing, slubbing, and roving fibrous materials." *Letters Patent sealed.*

JOHNSON. 4th April 1857.

950. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of 166, Buchanan Street, in the City of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in steam-hammers."—*A communication from Marie Joseph Denis Farcot, of Port St. Ouen, Paris, in the Empire of France, Engineer.* *Letters Patent sealed.*

JOHNSON. 4th April 1857.

951. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of 166, Buchanan Street, in the City of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in preserving food."—*A communication from Poe Edouard Lemetteus, and Michael Boniere, both of Rouen, in the Empire of France.* *Letters Patent sealed.*

HARVEY. 4th April 1857.

952. JOHN PENFORD HARVEY, of Spalding, in the County of Lincoln, Miller, for an invention for—"Improved machinery for crushing land or clods." *Provisional protection only.*

HANSOR. 4th April 1857. **953.** JAMES HANSOR, of Barnes, in the County of Surrey, Practical Chemist, for an invention for—"Improvements in apparatus for consuming gas." *Provisional protection only.*

PERKS. 4th April 1857. **954.** WILLIAM PERKS, junior, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"A new or improved manufacture of crown and sheet glass." *Letters Patent sealed.*

RIPPON. 4th April 1857. **955.** JOHN JAMES RIPPON, of Oakenshaw Print Works, near Accrington, in the County of Lancaster, Manufacturer, for an invention for—"A new or improved instrument or apparatus for straining or filtering colours.—*Provisional protection only.*

RIPPON. 4th April 1857. **956.** JOHN JAMES RIPPON, of Oakenshaw Print Works, near Accrington, in the County of Lancaster, Manufacturer, for an invention for—"An improvement or improvements in rollers or cylinders for printing fabrics."—*Provisional protection only.*

MELLING. 6th April 1857. **957.** THOMAS MELLING, of the Rainhill Iron Works, near Prescot, in the County of Lancaster, Engineer, for an invention for—"Improvements in taps or valves, and in apparatus to prevent the overflowing of and letting off the water from baths." *Letters Patent sealed.*

PREDAVALLE. 6th April 1857. **958.** BARTHOLOMEW PREDAVALLE, of 106, Great Russell Street, Bedford Square, in the County of Middlesex, Civil Engineer, for an invention for—"A new motive-power." *Provisional protection only.*

BOUSFIELD. 6th April 1857. **959.** GEORGE TOMLINSON BOUSFIELD, of Loughborough Park, Brixton, in the County of Surrey, for an invention for—"Improvements in treating india-rubber and gutta-percha in order to render the same impermeable to illuminating and other gases."—*A communication.* *Letters Patent sealed.*

BURRELL. 6th April 1857. **960.** CHARLES BURRELL, of Thetford, for an invention for—"Improvements in portable steam-engines suitable for agricultural purposes." *Letters Patent sealed; no specification filed.*

CLARKE. 6th April 1857. **961.** SAMUEL CLARKE, of 55, Albany Street, Regent's Park, in the County of Middlesex, for an invention for—"Improvements in the manufacture of candles and night lights." *Letters Patent sealed.*

BURRINGTON. 6th April 1857. **962.** GILBERT BURRINGTON, of Chudleigh, in the County of Devon, Gentleman, for an invention for—"Making the stop funnel for the prevention of waste of liquids whilst bottling or transferring them from one vessel to another." *Complete specification; protection for* SIX *months only.*

NEWTON. 6th April 1857. **963.** ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"An improvement in the construction of smoothing irons.—*A communication.* *Letters Patent sealed.*

SLACK. 6th April 1857. **964.** JOHN SLACK, of Manchester, in the County of Lancaster, Manager, for an invention for—"Improvements in lubricating certain parts of looms for weaving." *Letters Patent sealed.*

GOODYEAR. 6th April 1857. **965.** CHARLES GOODYEAR, of Leicester Square, in the County of Middlesex, Gentleman, for an invention for—"An improved manufacture of waterproof fabric applicable as a substitute for leather, prunella, embroidered and other ornamental fabrics and stuffs. *Provisional protection only.*

GOODYEAR. 6th April 1857. **966.** CHARLES GOODYEAR, of Leicester Square, in the County of Middlesex, Gentleman, for an invention for—"Improvements in the manufacture of waterproof boots and shoes, applicable also in part to boots and shoes of other kinds, and to other outer coverings for the feet." *Letters Patent sealed.*

TAYLOR. 6th April 1857. **967.** JOHN HORACE TAYLOR, of 24, Alma Street, Hoxton, in the County of Middlesex, Engineer, for an invention for—"Improvements in regulating the flow of fluids." *Provisional protection only.*

SIBLET. 6th April 1857. **968.** LOUIS JEAN MARIE SIBLET, of 39, Rue de l'Echiquier, Paris, in the Empire of France, and of No. 4, South Street, Finsbury, London, for an invention for—"An improved pulp for the manufacture of paper." *Provisional protection only.*

NEVILLE. 7th April 1857. **969.** WILLIAM NEVILLE, of the Island of Jersey, in the British Channel, Doctor of Medicine, for an invention for—"Improvements in amalgamating certain substances for the production of fuel." *Provisional protection only.*

ROGERS.
7th April 1857.

970. EBENEZER ROGERS, of Abercarn, in the County of Monmouth, for an invention for—" Improved methods of applying fuel for heating purposes."
Letters Patent sealed.

ROTHWELL.
COOPER.
7th April 1857.

971. JOHN ROTHWELL, of Enfield, in the County of Middlesex, and SAMUEL DIXON COOPER, of Westminster, in the same County, for an invention for—" Improvements in breech loading fire-arms." *Provisional protection only.*

HUNT.
7th April 1857.

972. JAMES GEORGE HUNT, of Cincinnati, Ohio, in the United States of America, for an invention for—" Improvements in fences and gates." *Letters Patent sealed.*

PITMAN.
7th April 1857.

973. JOHN TALBOT PITMAN, of the American and European Patent Offices, No. 67, Gracechurch Street, London, for an invention for—" Improvements in apparatus called fire-escapes."—*A communication.* *Letters Patent sealed.*

PEARSON.
JESSOP.
7th April 1857.

974. GEORGE PEARSON, of Oldham, in the County of Lancaster, and EDWARD JESSOP, of Manchester, in the same County, Machinists, for an invention for—" Improvements in sewing-machines." *Letters Patent sealed.*

DEARDEN.
7th April 1857.

975. HENRY DEARDEN, of Rochdale, in the County of Lancaster, Overlooker, for an invention for—" Certain improvements in power looms for weaving."
Provisional protection only.

ROBINSON.
7th April 1857.

976. JOHN ROBINSON, of Glossop, in the County of Derby, Manager, for an invention for—An improved apparatus for driving or giving motion to power looms, which said improvement is also applicable to driving other machinery."
Letters Patent sealed.

FINCH.
7th April 1857.

977. EDWARD FINCH, of Bridge Works, Chepstow, for an invention for—" An improvement in railway breaks." *Letters Patent sealed.*

COCHRANE.
7th April 1857.

978. CHARLES COCHRANE, of the Ormesby Iron Works, Middlesbro'-on-Tees, for an invention for—" An improvement in the heating of the blast for blast furnaces."
Provisional protection only.

GALE.
7th April 1857.

979. WILLIAM SULLIVAN GALE, of the City and State of New York, United States of America, for an invention for—" Improved means for rendering the joints of engines or other machinery steam or fluid tight." *Letters Patent sealed.*

BRIERLY.
7th April 1857.

980. HENRY BRIERLY, of Chorley, in the County of Lancaster, Mechanical Engineer, for an invention for—" Improved mules or machinery to be used in spinning." *Letters Patent sealed.*

PIERCY.
FLAGG.
7th April 1857.

981. FREDERICK PIERCY, of 8, Belgrave Street, Argyle Square, in the County of Middlesex, Artist, and SAMUEL FLAGG, of the same place, Architect, for an invention for—" A portable expanding life and military boat which is also adapted for other purposes." *Letters Patent sealed.*

TAYLOR.
8th April 1857.

982. BARNABAS TAYLOR, of Cranbrook, in the County of Kent, for an invention for—" An improved arrangement of combined bed and utensil for the use of invalids."
Provisional protection only.

LARNAUDÈS.
8th April 1857.

983. JEAN FRANÇOIS VICTOR LARNAUDÈS, of No. 2, Rue Gabrielle, Montmartre, near Paris, in the Empire of France, Gentleman, for an invention for—" The disinfection and deodorization of animal and vegetable substances."
Complete specification; Letters Patent sealed.

BOWLEY.
8th April 1857.

984. ROBERT KANZOW BOWLEY, of Charing Cross, in the County of Middlesex, Boot Maker, for an invention for—" Certain improvements in boots and other similar coverings for the feet." *Letters Patent sealed.*

HINGLEY.
HINGLEY.
8th April 1857.

985. BENJAMIN HINGLEY, of Cradley, in the County of Worcester, Manufacturer, and SAMUEL HINGLEY, of Cradley aforesaid, Manufacturer, for an invention for—" Improvements in anchors." *Letters Patent sealed.*

BILLING.
8th April 1857.

986. MARTIN BILLING, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—" An improvement or improvements in the manufacture of metallic cornice ends." *Provisional protection only.*

SPARKE.
SPARKE.
8th April 1857.

987. JAMES BIRD SPARKE, and ALFRED SPARKE, of the firm of Sparke and Company, of the Thorn Lane Foundry, Norwich, in the county of Norfolk, Engineers and Ironfounders, for an invention for—" Improvements in sawing-machinery."
Letters Patent sealed.

FRANCIS. 8th April 1857.

988. ALFRED FRANCIS, of Encomb Terrace, Wandsworth Road, in the County of Surrey, Gentleman, for an invention for—"Improvements in fastening shutters and doors." *Provisional protection only.*

EDWARDS. BEACHER. 8th April 1857.

989. EDMUND EDWARDS, and EDWARD BEACHER, of the Thorncliffe and Chapeltown Iron Works, near Sheffield, for an invention for—"Improvements in machinery or apparatus for washing or cleansing mineral and other substances." *Letters Patent sealed.*

BRIGHT. 8th April 1857.

990. CHARLES TILSTON BRIGHT, of the Cedars, Harrow Weald, in the County of Middlesex, Engineer, for an invention for—"Improvements in laying down submarine telegraph cables, and in apparatuses to be employed therein." *Letters Patent sealed.*

NEWTON. 8th April 1857.

991. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"Improved machinery for cultivating land."—*A communication.* *Letters Patent sealed.*

ROGERS. 8th April 1857.

992. JASPER WHEELER ROGERS, of Peat House, Roberts Town, in the County of Kildare, Engineer, for an invention for—"Improved means of and apparatus for collecting for use the excrement of towns and villages, and for facilitating the drainage of houses generally. *Letters Patent sealed.*

NEWTON. 8th April 1857.

993. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"Improved machinery for manufacturing coiled springs."—*A communication.* *Letters Patent sealed.*

NEWTON. 8th April 1857.

994. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"Improvements in hand bullet moulds."—*A communication.* *Letters Patent sealed.*

BETHUNE. 8th April 1857.

995. DONALD BETHUNE, of Cambridge Terrace, Hyde Park, London, Esquire, for an invention for—"Improvements in apparatus for preventing or consuming smoke in chimnies and furnaces." *Provisional protection only.*

BROOKS. 9th April 1857.

996. EDGAR BROOKS, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"Improvements in the manufacture of fire-arms." *Provisional protection only.*

HARLAND. 9th April 1857.

997. JOHN HARLAND, of No. 31, Shield Street, in the Borough and County of Newcastle-upon-Tyne, Timber Merchant, for an invention for—"Purifying plastic clay used for the making of all kinds of earthenware, and for the cheaper and more expeditious manufacture of bricks, tiles, draining pipes, and other articles of clay of a similar nature or description." *Provisional protection only.*

OXLEY. STRATH. 9th April 1857.

998. WILLIAM OXLEY, of the City of Manchester, Engineer, and HUGH STRATH, of the same place, Foreman, for an invention for—"Improvements in lubricators." *Letters Patent sealed.*

MOLINEAUX. 9th April 1857.

999. JOHN ATHERTON MOLINEAUX, Engineer, Brighton, for an invention for—"Improvements in economizing heat in locomotive and other high pressure steam-engines." *Letters Patent sealed.*

ROLFE. 9th April 1857.

1000. THOMAS ROLFE, of Regent Street, London, Pianoforte Manufacturer, for an invention for—"Improvements in pianofortes." *Letters Patent sealed.*

KYNASTON. 9th April 1857.

1001. AUGUSTUS FREDERICK KYNASTON, of No. 6, Osborn Place, Plymouth, in the County of Devon, a Companion of the Order of the Bath, and Post Captain in the Royal Navy, for an invention for—"Securing and disconnecting ships' boats and towing-cables." *Provisional protection only.*

THOMPSON. WALMSLEY. 9th April 1857.

1002. HENRY THOMPSON, of Great Harwood, near Blackburn, in the County of Lancaster, Warper, and HENRY WALMSLEY, of the same place, Bookkeeper, for an invention for—"Improvements in looms for weaving." *Provisional protection only.*

ALEXANDER. 9th April 1857.

1003. EDWIN POWLEY ALEXANDER, of 47, Lincoln's Inn Fields, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"Improvements in the manufacture of fulminating powder."—*A communication.* *Letters Patent sealed; no specification filed.*

BIELEFELD. 9th April 1857.

1004. CHARLES FREDERICK BIELEFELD, of Wellington Street, Strand, in the County of Middlesex, for an invention for—"Improvements in preparing the surfaces of slabs or sheets made of fibrous and cementing materials." *Letters Patent sealed.*

PURNELL. 9th April 1857.

1005. JOSEPH PURNELL, of John Street West, Barnsbury, in the County of Middlesex, Photographer, for an invention for—"Improvements in apparatus for taking photographic pictures." *Provisional protection only.*

TAYLOR. 9th April 1857.

1006. GEORGE EDWARD TAYLOR, of Oatlands Mill, Leeds, in the County of York, for an invention for—"An improvement in raising and shearing cloths." *Letters Patent sealed.*

CLARK. 9th April 1857.

1007. WILLIAM CLARK, of 53, Chancery Lane, in the County of Middlesex, Engineer, for an invention for—"An improved instrument for indicating the pressure of steam."—*A communication.* *Letters Patent sealed.*

TURNBULL. 9th April 1857.

1008. ROBERT TURNBULL, of Harwich, in the County of Essex, Foreman Shipwright, for an invention for—"Improvements in slips or ways for heaving up and moving ships, and in cradles for the same." *Letters Patent sealed.*

ARMITAGE. LEA. 9th April 1857.

1009. WILLIAM ARMITAGE, of the Farnley Iron Works, and HENRY LEA, both of Farnley, near Leeds, in the County of York, for an invention for—"Certain improvements in the manufacture of iron." *Provisional protection only.*

LEACH. 9th April 1857.

1010. JOHN LEACH, of Over Darwen, in the County of Lancaster, Overlooker, for an invention for—"Improvements in looms for weaving." *Letters Patent sealed.*

BEECH. WILLIAMS. 9th April 1857.

1011. JOHN BEECH, of Shrewsbury, in the County of Salop, Engineer, and JOHN WILLIAMS, of Wellington, in the same County, Inspector of Railways, for an invention for—"An improved mode of securing the rails of railways in their chairs." *Letters Patent sealed.*

HADDAN. 9th April 1857.

1012. JOHN COOPE HADDAN, of Cannon Row, in the City of Westminster, Civil Engineer, for an invention for—"Improvements in the manufacture of and in the means of and apparatus for discharging projectiles." *Letters Patent sealed.*

HADDAN. 9th April 1857.

1013. JOHN COOPE HADDAN, of Cannon Row, in the City of Westminster, Civil Engineer, for an invention for—"An improvement or improvements in the smelting or refining of iron."—*A communication.* *Letters Patent sealed.*

HADDAN. 9th April 1857.

1014. JOHN COOPE HADDAN, of Cannon Row, in the City of Westminster, Civil Engineer, for an invention for—"An improvement or improvements in the manufacture of iron and steel."—*A communication.* *Provisional protection* NOT *granted.*

BUNKER. 11th April 1857.

1015. CHARLES J. BUNKER, of the City and State of New York, United States of America, for an invention for—"An improved life preserver or life preserving shirt or sack." *Provisional protection only.*

SMITH. 11th April 1857.

1016. WILLIAM SMITH, of No. 10, Salisbury Street, Adelphi, Civil Engineer, for an invention for—"A universal jacquard apparatus."—*A communication from Monsieur Charles Anciot, of Rouen, France.* *Letters Patent sealed.*

MARROW. 11th April 1857.

1017. JAMES MARROW, of Sheerness, in the County of Kent, Engineer, for an invention for—"Improvements in machinery or apparatus for manufacturing bolts, rivets, nuts, and other similar forgings." *Provisional protection only.*

SMITH. 11th April 1857.

1018. CHARLES SMITH, of Holloway, in the County of Middlesex, for an invention for—"An apparatus to be used in connection with certain domestic utensils." *Provisional protection only.*

MATTHEWS. 11th April 1857.

1019. JOHN MATTHEWS, of Hurcott Mill, near Kidderminster, in the County of Worcester, Paper Maker, for an invention for—"A new or improved vat to be used in the manufacture of paper." *Letters Patent sealed.*

COURENQ. 11th April 1857.

1020. HENRY FELIX COURENQ, Merchant, of Toulouse (France), and 45, Essex Street, Strand, London, for an invention for—"Improvements in machinery for ruling paper." *Letters Patent sealed.*

LHERITIER. 11th April 1857.

1021. SEBASTIEN DIDIER LHERITIER, Doctor of Physic, at Paris, Town in the French Empire, for an invention for—"Certain improvements in signals." *Provisional protection only.*

ROBINSON. 11th April 1857.

1022. JOHN BLYTHE ROBINSON, of Beverley, in the County of York, Gentleman, for an invention for—"Improvements in machinery or apparatus for effecting agricultural operations."—*A communication.* *Letters Patent sealed; no specification filed.*

ENGLAND. 11th April 1857.

1023. JOSEPH ENGLAND, of the Town of Beverley, in the County of York, for an invention for—"Improvements in machinery for washing and wringing woven fabrics and similar articles." *Provisional protection only.*

BROOMAN. 11th April 1857.

1024. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, E.C. Patent Agent, for an invention for—"Improvements in the distillation and rectification of spirits, in apparatuses employed therein, and in the preparation of the substances to be distilled."—*A communication.* *Letters Patent sealed.*

LEJARD. 11th April 1857.

1025. FRANÇOIS DESIR LEJARD, of Paris, in the Empire of France, Gentleman, for an invention for—"An improved safety apparatus to be applied to the triggers of fire-arms." *Provisional protection only.*

WILES. 11th April 1857.

1026. WILLIAM GRESHAM WILES, of Lady's Well Brewery, Cork, Brewer and Manager, for an invention for—"Improvements in brewing." *Provisional protection only.*

WILTON. HUGGETT. 11th April 1857.

1027. THOMAS WILTON, of Eastbourne, in the County of Sussex, Gas Engineer, and JOHN HUGGETT, of the same place, Engineer and Smith, for an invention for—"An apparatus for regulating the flow or supply of gas." *Provisional protection only.*

PENGELLY. PORTER. 11th April 1857.

1028. THOMAS NATHANIEL PENGELLY, of Gloucester Street, Commercial Road East, Engineer, and GEORGE PORTER, of Mary Ann Terrace, Abbey Street, Bethnal Green Road, Bricklayer, both in the County of Middlesex, for an invention for—"Improvements in the application of steam to lifting or hoisting coals and other goods from ships' holds." *Letters Patent sealed.*

JOHNS. 11th April 1857.

1029. CHARLES SIDNEY JOHNS, of Barnard's Inn, Holborn, London, at present of Glasgow, in the County of Lanark, North Britain, for an invention for—"Improvements in preparing pulp for the manufacture of paper." *Provisional protection only.*

WINDER. 11th April 1857.

1030. THOMAS ROBERT WINDER, of Dover, in the County of Kent, Engineer, for an invention for—"An improved mode of constructing submarine works." *Letters Patent sealed.*

GIMSON. 11th April 1857.

1031. JOSIAH GIMSON, of Leicester, Engineer and Machinist, for an invention for—"Improved apparatus for preventing the explosion of steam-boilers." *Letters Patent sealed.*

ADCOCK. 11th April 1857.

1032. HENRY ADCOCK, of the City Road, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in steam-boilers." *Letters Patent sealed.*

PASCAL. 13th April 1857.

1033. JEAN BAPTISTE PASCAL, of Lyons, in the Empire of France, Civil Engineer, for an invention for—"Improvements in electric lamps." *Provisional protection only.*

SEARLE. 13th April 1857.

1034. THOMAS JOHN SEARLE, of Portland Wharf, 74, Wapping Wall, Shadwell, in the County of Middlesex, for an invention for—"Improvements in fastenings for window sashes." *Provisional protection only.*

MAURICE. 13th April 1857.

1035. JOSEPH MAURICE, of the firm of Gemble and Maurice, of 316, Regent Street, Dentist, for an invention for—"Certain improvements in the fastenings, fixings and attachments used for supporting or securing artificial teeth in the mouth." *Letters Patent sealed.*

RICHARDSON. BROWELL. 13th April 1857.

1036. THOMAS RICHARDSON, and EDMUND JOHN JASPER BROWELL, of the Laboratory, Neville Hall, Newcastle-on-Tyne, for an invention for—"Improvements in treating old or waste railway wood sleepers and bearers, and in preparing or preserving wood for railway sleepers and bearers and other works." *Letters Patent sealed.*

RATCLIFF. RATCLIFF. 13th April 1857.

1037. JOSEPH RATCLIFF, and EDMUND RATCLIFF, Chandelier Manufacturers, trading as Copartners, at Nos. 59, and 60, Saint Paul's Square, Birmingham, in the County of Warwick, for an invention for—"An improved mode or modes of adjusting chandeliers." *Letters Patent sealed; no specification filed.*

GOODYEAR. 13th April 1857.

1038. CHARLES GOODYEAR, of Leicester Square, in the County of Middlesex, Gentleman, for an invention for—"Improvements in the manufacture of life preserving apparel and other buoyant pliant articles. *Provisional protection only.*

NEWTON. 13th April 1857.

1039. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in the construction of boats, buoys, floats, or other buoyant vessels."—*A communication.* *Letters Patent sealed.*

SCHMERSAHL. 13th April 1857.

1040. AUGUSTUS EDWARD SCHMERSAHL, of Miles Platting, in the County of Lancaster, Chemist, for an invention for—"Improvements in treating bones for the purpose of obtaining gelatine, size, or glue, and in obtaining certain useful products from such treatment." *Letters Patent sealed.*

READING. 13th April 1857.

1041. DANIEL READING, of Claverdon, in the County of Warwick, for an invention for—"An apparatus for ventilating and increasing the draft in fire-places and flues." *Provisional protection only.*

BROOMAN. 13th April 1857.

1042. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, E.C., Patent Agent, for an invention for—"A method of and apparatus for disinfecting alcohol or for separating essential oils therefrom."—*A communication from Henri Breton.* *Letters Patent sealed.*

BEAUMISNIL. ERHARD. 13th April 1857.

1043. PIERRE VICTOR BEAUMISNIL, and CHARLES ERHARD, of Paris, Rue Lafayette, No. 67, for an invention for—"A new and improved system of wheels for railway and other carriages." *Provisional protection only.*

POTTER. 13th April 1857.

1044. THOMAS GREVILLE POTTER, of 531, New Oxford Street, London, for an invention for—"An apparatus for day and night advertising." *Provisional protection only.*

BARLOW. 13th April 1857.

1045. CHARLES BARLOW, of the Office for Patents, 89, Chancery Lane, London, for an invention for—"Consuming the smoke and gases of furnaces and at the same time furnishing a hot air blast, being a smoke and gas consuming hot air blast furnace."—*A commnication from Thomas Aldridge, of the City of Hudson, Jersey, United States.* *Letters Patent sealed.*

M'FARLANE. 13th April 1857.

1046. PATRICK M'FARLANE, Agent, of the City of Glasgow Bank, Comrie, in the County of Perth, North Britain, for an invention for—"Improvements in looms for weaving." *Letters Patent sealed.*

RAMSBOTTOM. 13th April 1857.

1047. JOHN RAMSBOTTOM, of Longsight, near the City of Manchester, Engineer, for an invention for—"Improvements in wrought iron railway chairs and in machinery for manufacturing the same and other articles." *Letters Patent sealed.*

HAZARD. 14th April 1857.

1048. ROBERT HAZARD, Engineer, of No. 1, Thanet Place, Strand, in the County of Middlesex, for an invention for—"An improved heat extractor." *Letters Patent sealed.*

WICKS. GHISLIN. 14th April 1857.

1049. PETER WICKS, of the Cape of Good Hope, and also of No. 10, Devonshire Street, Bloomsbury, and THOMAS GOULSTON GHISLIN, also of the Cape of Good Hope, and No. 7, Alfred Place, Blackfriars Road, for an invention for—"Superseding the use of bristles, cocoa fibres, flax, hemp, whalebone, &c., to be styled and called an invention for adapting and applying the fibrous plants of South Africa to the purposes of manufacture. *Letters Patent sealed.*

LAVIGNE. 14th April 1857.

1050. CHARLES JEAN MARIE LAVIGNE, of Paris, in the Empire of France, for an invention for—"Improvements in machines or apparatus for swinging, see-sawing, revolving, and for performing other exercises or amusements in the air." *Provisional protection only.*

RUBERY. 14th April 1857.

1051. JOHN RUBERY, of Birmingham, in the County of Warwick, for an invention for—"Improvements in the manufacture of umbrella and parasol ribs." *Letters Patent sealed.*

HARRISON. 14th April 1857.

1052. THOMAS HARRISON, of Nebthwait Mills, in the County of Lancaster, Machinist, for an invention for—"New or improved machinery for the manufacture of wooden pill boxes, match boxes, and other such like articles." *Letters Patent sealed.*

BROOMAN. 14th April 1857.

1053. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, E.C., Patent Agent, for an invention for—"Improvements in machinery for mixing, solidifying, pressing, and moulding."—*A communication from M. Evrard.* *Letters Patent sealed.*

EARL OF ALDBOROUGH. 14th April 1857.

1054. BENJAMIN O'NEALE STRATFORD, Earl of Aldborough, of Stratford Lodge, in the County of Wicklow, in Ireland, for an invention for—"Improvements in aërial navigation and in the apparatus connected therewith, parts of which are applicable to locomotion generally." *Letters Patent sealed.*

KNOWLES. 14th April 1857.

1055. ROBERT KNOWLES, of Manchester, in the County of Lancaster, Manager, for an invention for—"Certain improvements in machinery or apparatus for winding yarn." *Letters Patent sealed.*

JOHNSON. 14th April 1857.

1056. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of 166, Buchanan Street, in the City of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in apparatus for generating and superheating steam."—*A communication from Auguste Prouvost, of Lille, in the Empire of France, Spinner.* *Letters Patent sealed.*

JOHNSON. 14th April 1857.

1057. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of 166, Buchanan Street, in the City of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in machinery or apparatus for raising and forcing of fluids."—*A communication from Jean Laserre.* *Provisional protection only.*

JOHNSON. 14th April 1857.

1058. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of 166, Buchanan Street, in the City of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in fire-arms."—*A communication from François Schepers, of Liège, in the Kingdom of Belgium, Gun Maker.* *Provisional protection only.*

NEWTON. 14th April 1857.

1059. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"Improvements in carding-engines."—*A communication.* *Letters Patent sealed.*

NEWTON. 14th April 1857.

1060. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improved means of lighting gas for illuminating and other purposes."—*A communication.* *Letters Patent sealed.*

WILLIS. 14th April 1857.

1061. HENRY WILLIS, of Manchester Street, Gray's Inn Road, in the County of Middlesex, Organ Builder, for an invention for—"Improved machinery for supplying air to organs and free reed instruments." *Letters Patent sealed.*

KNOWLES. 15th April 1857.

1062. ROBERT KNOWLES, of Manchester, in the County of Lancaster, Manager, for an invention for—"Certain Improvements in power looms for weaving. *Letters Patent sealed.*

COUTTS. 15th April 1857.

1063. JOHN COUTTS, of Willington Lodge, in the County of Northumberland, Naval Architect, Engineer and Mechanist, for an invention for—"An improved method of uniting together the parts of all kinds of floating bodies composed of metallic substances, as well as vessels for containing fluids, gases, &c." *Provisional protection only.*

BARNETT. 15th April 1857.

1064. LOUIS BARNETT, of No. 5, New Street, Bishopsgate, in the City of London, for an invention for—"Improvements in the making and cutting out of garments." *Letters Patent sealed.*

NEWTON. 15th April 1857.

1065. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"Improved apparatus for taking the measurements for coats and other garments."—*A communication from Lyman Derby, of New York City.* *Letters Patent sealed.*

GOODYEAR. 15th April 1857.

1066. CHARLES GOODYEAR, junior, of Leicester Square, in the County of Middlesex, for an invention for—"An improved manufacture of paper knife." *Provisional protection only.*

BRUNEL. 15th April 1857.

1067. BONNET FREDERICK BRUNEL, of Hampstead Road, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in raising sunken vessels and other submerged structures and articles, and in machinery and apparatus employed therein." *Letters Patent sealed.*

PAYNE. 15th April 1857.

1068. JAMES PAYNE, of Kirkcudbright, in the County of Kirkcudbright, North Britain, Ironmonger, for an invention for—"Improvements in scythes." *Letters Patent sealed.*

RICHARDSON. PRENTICE. 15th April 1857.

1069. THOMAS RICHARDSON, of Newcastle-on-Tyne, and MANNING PRENTICE, of Stowmarket, for an invention for—"Improvements in the manufacture of manure." *Letters Patent sealed.*

SAFRAN. 15th April 1857.

1070. JACOB SAFRAN, of Wellclose Square, in the County of Middlesex, Cabinet Maker, for an invention for—"Improvements in locking or fastening combinations of drawers in chests, tables, nests or otherwise." *Letters Patent sealed.*

LEUILLET. 15th April 1857.

1071. JEAN BAPTISTE LEUILLET, of Paris, in the Empire of France, Civil Engineer, for an invention for—"Improvements in binding account and other books." *Provisional protection only.*

SUDBURY. LINSELL. 16th April 1857.

1072. JOHN SUDBURY, and ALFRED WILLIAM LINSELL, of Halstead, in the County of Essex, Brassfounders, for an invention for—"An improved gas regulator." *Letters Patent sealed.*

RAGGETT. 16th April 1857.

1073. GEORGE RAGGETT, of No. 21, Duke Street, Saint James', in the County of Middlesex, Wine Merchant, for an invention for—"Improvements in railway breaks and carriages."—*A communication.* *Provisional protection only.*

SUGDEN. SUGDEN. 16th April 1857.

1074. THOMAS SUGDEN, and FREDERICK SUGDEN, of Oldham, in the County of Lancaster, Machinists and Tool Makers, for an invention for—"Improvements in sewing-machines." *Letters Patent sealed.*

CROOK. 16th April 1857.

1075. SAMUEL THOMAS CROOK, of Halifax, in the County of York, Ironmonger, for an invention for—"Improvements in the mode or method of manufacturing iron retorts, safes, cisterns, ovens, boilers, chests, and other similar articles of iron manufacture." *Provisional protection only.*

WEILD. 16th April 1857.

1076. WILLIAM WEILD, of the City of Manchester, in the County of Lancaster, Machinist, for an invention for—"Improved arrangements for printing, dyeing, colouring or staining, and otherwise preparing yarns or threads for various manufacturing purposes." *Letters Patent sealed.*

HINDLE. 16th April 1857.

1077. ROBERT HINDLE, of Sabden, in the County of Lancaster, Calico Printer, for an invention for—"Improvements in that apparatus used in calico and other printing known as the "Seive." *Letters Patent sealed.*

SCOWEN. 16th April 1857.

1078. THOMAS LAYZELL SCOWEN, of Allen Road, Stoke Newington, in the County of Middlesex, for an invention for—"The horizontal fin-expanding canopy for carriages, boats, and places." *Letters Patent sealed.*

SHERWOOD. WAYNE. 16th April 1857.

1079. ISAAC SHERWOOD, of Birmingham, in the County of Warwick, Drysalter, and JOSEPH BLOUNT WAYNE, of the same place, Machinist, for an invention for—"Improvements in certain apparatus to be attached to vehicles for the purpose of acting as a check upon the drivers or conductors of such vehicles, by indicating the number of passengers carried and the distance each has travelled. *Provisional protection only.*

WARBURTON. 16th April 1857.

1080. JAMES WARBURTON, of Addingham, near Otley, in the County of York, Manufacturer, for an invention for—"Improvements in preparing and combing wool and other fibres." *Letters Patent sealed.*

HANDS. 16th April 1857.

1081. JOHNSON HANDS, of Epsom, in the County of Surrey, for an invention for—"Improvements in kilns and in furnaces and flues, for withdrawing air and vapours from drying and other chambers." *Letters Patent sealed.*

WARBURTON. 16th April 1857.

1082. JAMES WARBURTON, of Addingham, near Otley, in the County of York, Manufacturer, for an invention for—"Improvements in carding machinery." *Letters Patent sealed.*

NEWINGTON. 16th April 1857.

1083. SAMUEL NEWINGTON, of Ridgway, Ticehurst, in the County of Sussex, M.D., for an invention for—"Improvements in structures for growing grapes and other fruit." *Provisional protection only.*

WARBURTON. 16th April 1857.

1084. JAMES WARBURTON, of Addingham, near Otley, in the County of York, Manufacturer, for an invention for—"Improvements in preparing and combing wool and other fibres." *Letters Patent sealed.*

SMITH. 16th April 1857.

1085. WILLIAM SMITH, of No. 10, Salisbury Street, Adelphi, Civil Engineer, for an invention for—"A smoke consuming furnace."—*A communication from Messrs Sebille, Bertholomey, and Mariotte, Engineers, of Paris and Nantes.* *Provisional protection only.*

FONTAINEMOREAU. 16th April 1857.

1086. PETER ARMAND LE COMTE DE FONTAINEMOREAU, of 39, Rue de l'Echiquier, Paris, in the Empire of France, and 4, South Street, Finsbury, London, for an invention for—"An improved truck apparatus for moving and transporting stones and other heavy bodies."—*A communication.* *Letters Patent sealed.*

SCHAUB. 16th April 1857.

1087. GEORGE SCHAUB, of Birmingham, in the County of Warwick, Electro-Metallurgist, for an invention for—"A new or improved manufacture of types for printing." *Letters Patent sealed.*

OLDFIELD. 17th April 1857.

1088. EDWARD OLDFIELD, of the firm of Oddy and Oldfield, of the Adelphi Iron Works, Salford, in the County of Lancaster, Machine Makers, for an invention for—"Improvements in self-acting mules for spinning and doubling."—*Partly a communication.* *Letters Patent sealed.*

MESSENGER. FLETCHER. 17th April 1857.

1089. SAMUEL MESSENGER, of the firm of Messenger & Sons, Chandelier and General Gas fitting Manufacturers, of Broad Street, Birmingham, in the County of Warwick, and Hatton Garden, London, in the County of Middlesex, and THEODORE FLETCHER, also of Birmingham, in the County of Warwick, Superintendent of Works at the Birmingham Establishment of the aforesaid Mess. Messenger and Sons, for an invention for—"Certain improvements in gas-burners." *Provisional protection only.*

CAILLAUD. 17th April 1857.

1090. JEAN MARIE LEONIDAS CAILLAUD, of Marshgate Lane, Stratford, in the County of Essex, for an invention for—"Improvements in removing the fur from the skins of rabbits, and in preparing rabbit, calf, and other skins for tanning." *Letters Patent sealed.*

ARTHUR. 17th April 1857.

1091. GABRIEL ARTHUR, of Linares, Spain, Civil Engineer, for an invention for—"Improvements in the manufacture or production of bricks, tiles and other articles of earthenware." *Letters Patent sealed.*

SMITH. 18th April 1857.

1092. JOHN SMITH, of Kidderminster, in the County of Worcester, Mechanic, for an invention for—"Improvements in the manufacture of carpets." *Provisional protection only.*

DUHAMEL. 18th April 1857.

1093. HIPPOLYTE DUHAMEL, junior, of Clichy-la-Garenne, near Paris, France, Glass Manufacturer, for an invention for—"Improvements in the fabrication of glass." *Provisional protection only.*

HARRIS. 18th April 1857.

1094. THOMAS HARRIS, Veterinary Surgeon, of Shiffnall, in the County of Shropshire, for an invention for—"Certain improvements in the mode of constructing and applying horse shoes." *Letters Patent sealed.*

WYLIE. 18th April 1857.

1095. JOHN WYLIE, of Edinburgh, in the County of Midlothian, North Britain, Pianoforte Tuner, for an invention for—"Improvements in pianofortes." *Provisional protection only.*

BRANDON. 18th April 1857.

1096. DAVID HUNTER BRANDON, of No. 7, Rue des Moulins, Paris, and No. 45, Bedford Row, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in fastenings for shutters, windows, doors, &c.—*A communication.* *Provisional protection only.*

DAVIES. 18th April 1857.

1097. GEORGE DAVIES, of 1, Serle Street, Lincoln's Inn, in the County of Middlesex, and 28, St. Enoch Square, Glasgow, North Britain, Civil Engineer and Patent Agent, for an invention for—"Improvements in the method of laying under ground telegraphic wires."—*A communication from Martin Sebastien Goddier and Hypolite Eugène Goddier, both of Paris, in the Empire of France.* *Provisional protection only.*

GRANVILLE. 18th April 1857.

1098. WILLIAM HENRY DEARING GRANVILLE, of 44, Holborn Hill, in the City of London, Gun Manufacturer, for an invention for—"Improvements in fire-arms and in the means of loading the same." *Letters Patent sealed.*

DEANE. 18th April 1857.

1099. HENRY DANIEL DEANE, of Number 18, Pigott Street, East India Road, Limehouse, in the County of Middlesex, Ship Caulker, for an invention for—"Improvements in the floats or paddle boards of paddle wheels." *Letters Patent sealed.*

JAHN. 18th April 1857.

1100. GUSTAV JAHN, of 43, Bedford Row, in the County of Middlesex, for an invention for—"Improvements in revolver fire-arms." *Provisional protection only.*

HEALD.
18th April 1857.

1101. HENRY HEALD, of Sabden, in the Parish of Whalley, in the County of Lancaster, Cotton Manufacturer, for an invention for—"An improved method of packing pickers employed in looms." *Letters Patent sealed.*

BARNES.
18th April 1857.

1102. CHARLES RICHARD BARNES, of the City and State of New York, United States of America, for an invention for—"Improvements in means for hulling and cleaning rice and other grains having a hull or husk." *Letters Patent sealed.*

NORMAND.
18th April 1857.

1103. CHARLES BENJAMIN NORMAND, of Havre, in the Empire of France, Engineer, for an invention for—"Improvements in generating motive-power by the employment of heated air, steam, and gases." *Letters Patent sealed.*

LOCKETT.
20th April 1857.

1104. JOSEPH LOCKETT, of the Strangeways Engraving Works, near the City of Manchester, Engraver, for an invention for—"Improvements in machinery for etching or engraving." *Provisional protection* NOT *granted.*

SANDERSON.
20th April 1857.

1105. THOMAS SANDERSON, of Lothian Road, in the City and County of Edinburgh, Coach Builder, for an invention for—"Improvements in wheeled carriages." *Letters Patent sealed.*

STURGES.
20th April 1857.

1106. RICHARD FORD STURGES, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"A new or improved manufacture of metallic pens." *Provisional protection only.*

MARTIN.
20th April 1857.

1107. JOHN COWDERY MARTIN, of Fern Cottage, Charlewood Road, Putney, in the County of Surrey, Naval Architect, for an invention for—"An improvement in the manufacture of paper." *Letters Patent sealed.*

BARLOW.
20th April 1857.

1108. CHARLES BARLOW, of the Office for Patents, 89, Chancery Lane, London, for an invention for—"A mechanical apparatus for regenerating the impulsive force of any motive-power."—*A communication from Joseph Commandeur, of Lyons, France, Gentleman. Complete Specification; Protection for* SIX *months only.*

THOMSON.
20th April 1857.

1109. WILLIAM THOMSON, of Dalkeith Gardens, in the County of Midlothian, North Britain, Gentleman, for an invention for—"Improvements in stoves or heating apparatus." *Letters Patent sealed.*

TINDALL.
20th April 1857.

1110. ROBERT TINDALL, Junior, of Fraserburgh, in the County of Aberdeen, North Britain, Engineer, for an invention for—"Improvements in harpoon guns and ammunition." *Letters Patent sealed.*

JARVIS.
20th April 1857.

1111. JOHN STEPHEN JARVIS, one of the Managers for Dent, Allcroft, and Company, of Wood Street, in the City of London, Warehouseman, for an invention for—"An improvement in the manufacture of stocks or ties for the neck." *Provisional protection only.*

UNDERWOOD.
20th April 1857.

1112. JOHN UNDERWOOD, of Gloucester Road, in the County of Middlesex, Gentleman, for an invention for—"An improved method of printing and of preparing materials employed therein." *Letters Patent sealed.*

CLAY.
20th April 1857.

1113. WILLIAM CLAY, of Liverpool, Iron Manufacturer, for an invention for—"Improvements in the manufacture of iron and steel." *Provisional protection only.*

NEWTON.
20th April 1857.

1114. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Certain improvements in meters for measuring the flow of gas, water, or other fluids."—*A communication. Letters Patent sealed.*

TREEBY.
20th April 1857.

1115. THOMAS WRIGHT GARDENER TREEBY, of No. 1, Westbourne Terrace Villas, Upper Westbourne Terrace, Paddington, in the County of Middlesex, for an invention for—"Improvements on syphons and parts connected therewith." *Provisional protection only.*

WIMBALL.
21st April 1857.

1116. HENRY WIMBALL, of Aldermaston, in the County of Berks, Brick Manufacturer, for an invention for—"Improvements in pug mills." *Provisional protection only.*

FOURNIER.
21st April 1857.

1117. BENOIT AMEDEE FOURNIER, of 51, High Holborn, London, for an invention for—"Preventing on railways those accidents that occur through one locomotive running into another." *Provisional protection only.*

CRIGHTON. FOXCROFT. 21st April 1857.

1118. WILLIAM CRIGHTON, of the City of Manchester, in the County of Lancaster, Machinist, and PETER FOXCROFT, of Pendleton, in the said County, Manager, for an invention for—"Improvements in machinery or apparatus for preparing cotton wool or other fibrous substances to be spun." *Letters Patent sealed.*

SHERMAN. 21st April 1857.

1119. AMORY FAIRBANKS SHERMAN, of the City of Roxbury, in the County of Norfolk, in the State of Massachusetts, in the United States of America, but at present residing at Liverpool, in the County of Lancaster, Civil Engineer, for an invention for —"Improvements in machinery for the manufacture of ropes, strands for ropes, and for other purposes." *Letters Patent sealed.*

GOSSAGE. 21st April 1857.

1120. WILLIAM GOSSAGE, of Widnes, in the County of Lancaster, Chemist, for an invention for—"Improvements in the manufacture of certain kinds of soap." *Provisional protection only.*

NEWTON. 21st April 1857.

1121. ALFRED VINCENT NEWTON, of the Office of Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"Improvements in rules and other measuring instruments."—*A communication from M. Siegrist, of Dornach, in the Empire of France.* *Provisional protection only.*

MARTEN. 21st April 1857.

1122. EDWIN MARTEN, of Pratts Row, Phipps Bridge, Mitcham, in the County of Surrey, for an invention for—"Improvements in apparatus for regulating the pressure and supply of gas." *Letters Patent sealed; no specification filed.*

CHANTER. ANNAN. 21st April 1857.

1123. JOHN CHANTER, and DAVID ANNAN, of Bow, in the County of Middlesex, for an invention for—"Improvements in furnaces when moveable fire bars are used." *Letters Patent sealed.*

SMART. 21st April 1857.

1124. HENRY SMART, of 17, Queen's Terrace, Bayswater, for an invention for—"Improvements in organs." *Provisional protection only.*

COLLADON. 21st April 1857.

1125. DANIEL COLLADON, of No. 62, Rue de la Victoire, in the City of Paris, Banker, for an invention for—"Improvements in means and machinery for boring and cutting stone, earth and other like substances, and for ventilating the places where such machinery is employed." *Letters Patent sealed; no specification filed.*

SHARPLES. 22nd April 1857.

1126. JAMES SHARPLES, of Crawshaw Booth, near Rawtenstall, in the County of Lancaster, Madder Dyer, for an invention for—"Improvements in drying cotton and other fibrous substances or materials." *Letters Patent sealed.*

STEEL. 22nd April 1857.

1127. WILLIAM STEEL, of Glasgow, in the County of Lanark, North Britain, Brewer, for an invention for—"Improvements in discharging ashes from steam-boats." *Provisional protection only.*

BURTON. LORD. 22nd April 1857.

1128. THOMAS BURTON, of Padiham, in the County of Lancaster, and SIMEON LORD, of Burnley, in the said County, for an invention for—"An improved self acting steam-pipe regulator, which is also applicable to drying cylinders and other similar purposes." *Letters Patent sealed.*

HIGGIN. LIGHTFOOT. 22nd April 1857.

1129. JAMES HIGGIN, and JOHN LIGHTFOOT, of the City of Manchester, in the County of Lancaster, Manufacturing Chemists, for an invention for—"An improved compound and improvements in the method of applying the same for the purpose of stiffening fibrous or textile materials, the same being applicable to the fixing of colouring matters or pigments." *Provisional protection only.*

WILLIAMS. 22nd April 1857.

1130. WILLIAM WILLIAMS, of Liverpool, in the County of Lancaster, Master Mariner, for an invention for—"An improved propeller for propelling ships, boats, and other vessels." *Provisional protection only.*

OGDEN. FIRTH. 22nd April 1857.

1131. WILLIAM OGDEN, and HENRY FIRTH, both of Bacup, in the County of Lancaster, Mechanics, for an invention for—"Improvements in fans or blowing apparatus." *Provisional protection only.*

KENDALL. 22nd April 1857.

1132. WILLIAM KENDALL, of Blawith, Ulverstone, in the County of Lancaster, Wood Turner, for an invention for—"Improvements in the manufacture of boxes and similar articles, and in the machinery or apparatus to be employed therein." *Provisional protection only.*

JOHNSON. 22nd April 1857.

1133. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of 166, Buchanan Street, in the City of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in sewing-machines."—*A communication.* *Letters Patent sealed.*

TAYLOR. WORSWICK. LOVATT. 22nd April 1857.	**1134.** ROBERT TAYLOR, RICHARD WORSWICK, and JOHN LOVATT, all of Ipswich, in the County of Suffolk, Engineers, for an invention for—Improvements in railway chairs and in the mode of securing the ends of rails therein." *Letters Patent sealed.*
CAVANNA. 22nd April 1857.	**1135.** GEROLAMO CAVANNA, of Genoa, in the kingdom of Sardinia, Mechanician, for an invention for—" Improvements in obtaining motive-power." *Letters Patent sealed.*
GRANTHAM. GRANTHAM. SHARP. 22nd April 1857.	**1136.** RICHARD BOXALL GRANTHAM, of 7, Great Scotland Yard, London, Civil Engineer, and JOHN GRANTHAM, and HENRY SHARP, of Liverpool, in the County of Lancaster, Engineers, for an invention for—" Improvements in graving-docks." *Provisional protection only.*
OSMONT. 22nd April 1857.	**1137.** CHARLES ETIENNE OSMONT, of 22, Rue Neuve Coquenard, Paris, for an invention for—" Improvements in penholders." *Letters Patent sealed.*
ROBERTSON. 22nd April 1857.	**1138.** WILLIAM ROBERTSON, of the City of Manchester, Mechanician, for an invention for—" Certain improvements in machines for preparing to be spun cotton and other fibrous materials." *Letters Patent sealed.*
RUTT. 22nd April 1857.	**1139.** WILLIAM RUTT, of No. 11, Sutton Place, Homerton, in the County of Middlesex, for an invention for—" Improvements in microscopes." *Provisional protection only.*
TEMPERTON. 23rd April 1857.	**1140.** THOMAS ATO TEMPERTON, of the City of Manchester, Corn Factor, for an invention for—" A new application of a known material for sizeing, stiffening and finishing yarns, fabrics and other substances, and for the manufacture of British gum." *Provisional Protection* NOT *granted.*
WELCH. 23rd April 1857.	**1141.** GEORGE WELCH, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—" Improvements in metallic pens and penholders." *Letters Patent sealed.*
HECHT. 23rd April 1857.	**1142.** SOLOMON PHILIPP HECHT, of Gresham Street, in the City of London, for an invention for—" Improvements in the manufacture of moulds for making fancy tobacco pipes and other ornamental articles from plastic materials."—*A communication.* *Provisional protection only.*
DUNNETT. 23rd April 1857.	**1143.** MATTHEW DUNNETT, of Glasgow, in the County of Lanark, North Britain, Manufacturer, for an invention for—" Improvements in embroidering or sewing and in machinery or apparatus connected therewith." *Letters Patent sealed.*
MORISON. 23rd April 1857.	**1144.** JAMES MORISON, of Paisley, in the County of Renfrew, North Britain, Machinist, for an invention for—" Improvements in portable shower and sponge baths." *Provisional protection only.*
MILNES. 23rd April 1857.	**1145.** DAVID MILNES, of Bradford, in the County of York, Clerk, for an invention for—" An improved manufacture of woven goods or fabrics." *Letters Patent sealed; no specification filed.*
SCARR. POLLARD. 23rd April 1857.	**1146.** GEORGE SCARR, of Burnley, in the County of Lancaster, Iron Founder, and JAMES POLLARD, of the same place, Mechanic, for an invention for—" Certain improvements in power looms for weaving." *Letters Patent sealed.*
TAYLOR. 23rd April 1857.	**1147.** JAMES TAYLOR, of Cullen, in the County of Banff, North Britain, for an invention for—" Improvements in apparatus for producing fire and light." *Provisional protection only.*
GARNETT. 23rd April 1857.	**1148.** JOHN GARNETT, of 81, Wells Street, Oxford Street, London, for an invention for—" Improvements in the construction of corsets."—*Letters Patent sealed.*
RICHARD. 23rd April 1857.	**1149.** JAQUES RICHARD, near Melum, a Town of France, Agriculturalist, for an invention for—" An improved agricultural machine for cleaning grains." *Letters Patent sealed.*
BODMER. 23rd April 1857.	**1150.** RUDOLPH BODMER, of 2, Thavies Inn, Holborn, in the City of London, for an invention for—" Improvements in safety valves of steam-boilers."—*A communication.* *Letters Patent sealed.*
WRIGHT. 23rd April 1857.	**1151.** GEORGE WRIGHT, of Sheffield, in the County of York, Stove Grate Manufacturer, for an invention for—" Improved apparatus for heating." *Letters Patent sealed.*

BISHOP. 23rd April 1857.

1152. ALBERT DEMERIT BISHOP, of Woolwich, in the County of Kent, Engineer, for an invention for—"An improvement in the construction of windlasses." *Letters Patent sealed.*

CAMBRIDGE. 23rd April 1857.

1153. WILLIAM COLBORNE CAMBRIDGE, of Bristol, Agricultural Implement Maker, for an invention for—"Improvements in chain harrows." *Letters Patent sealed.*

LA PARAZ. MAZEL. 23rd April 1857.

1154. ALEXANDER LA PARAZ, of 10, Gloucester Place, Portman Square, and JOSEPHINE MAZEL, of 16, King Street, Portman Square, both in the County of Middlesex, for an invention for—"Improvements in preparing paints and varnishes." —*A communication from Messrs Carpentras and Mazel, of Paris.* *Provisional protection only.*

ROCHETTE. 23rd April 1857.

1155. ANDRE PROSPER ROCHETTE, of Brighouse, in the County of York, for an invention for—"An improvement in currying leather." *Letters Patent sealed.*

WAY. 23rd April 1857.

1156. JOHN THOMAS WAY, of Welbeck Street, in the County of Middlesex, for an invention for—"An improvement in the manufacture of soap." *Letters Patent sealed.*

ROCHETTE. 23rd April 1857.

1157. ANDRE PROSPER ROCHETTE, of Brighouse, in the County of York, for an invention for—"Improvements in currying leather." *Letters Patent sealed.*

SWIFT. SWIFT. CORNES. 24th April 1857.

1158. ROBERT FOWLER SWIFT, and RICHARD SWIFT, of No. 7 Wharf, Wenlock Road, City Road, in the County of Middlesex, Engineers, and JOHN CORNES, of Balmes Road, Hackney, in the same County, Engineer, for an invention for—"Improved machinery for washing, wringing, and mangling clothes or fabrics." *Provisional protection only.*

MANICO. 24th April 1857.

1159. EDWARD MANICO, of Bucklersbury, in the City of London, Lieutenant Royal Marines, for an invention for—"Improvements in obtaining foundations for marine or other structures." *Letters Patent sealed.*

CLARK. 24th April 1857.

1160. WILLIAM CLARK, of 53, Chancery Lane, in the County of Middlesex, Engineer, for an invention for—"Improvements in machinery or apparatus for embroidering."—*A communication.* *Letters Patent sealed.*

BELLON. 24th April 1857.

1161. JEAN BAPTISTE BELLON, of Moorgate Street Chambers, in the City of London, Practical Chemist, for an invention for—"Improvements in mordants for use in dyeing processes." *Provisional protection only.*

CRADDOCK. 24th April 1857.

1162. THOMAS CRADDOCK, of 137, Tachbrook Street, Pimlico, in the County of Middlesex, Engineer, for an invention for—"Certain improvements in the steam-engine and the steam-boiler." *Letters Patent sealed.*

CADDICK. HEMMINGS. CADDICK. 24th April 1857.

1163. JAMES CADDICK, of the Garndyn's Iron Works, THOMAS HEMMINGS, also of the Garndyn's Iron Works, and DAVID CADDICK, of the Ebbw Vale Iron Works, near Newport, Monmouth, for an invention for—"Improvements in puddling and balling furnaces for heating and melting iron or steel." *Letters Patent sealed.*

SMITH. 25th April 1857.

1164. MATTHEW SMITH, of Heywood, in the County of Lancaster, Manager, for an invention for—"Certain improvements in looms for weaving." *Letters Patent sealed.*

WALMSLEY. 25th April 1857.

1165. SAMUEL WALMSLEY, of Stockport, in the County of Chester, Agent, for an invention for—"Certain improvements in machinery for preparing and spinning cotton and other fibrous materials." *Provisional protection only.*

TONKS. BREEDEN. BREEDEN. 25th April 1857.

1166. STEPHEN TONKS, of Birmingham, in the County of Warwick, Manufacturer, and JOSEPH BREEDEN, of Birmingham aforesaid, Manufacturer, and WILLIAM BREEDEN, of Birmingham aforesaid, Manufacturer, for an invention for—"A new or improved gas burner."—*A communication.* *Provisional protection only.*

SUNDERLAND. DEAN. 25th April 1857.

1167. SAMUEL SUNDERLAND, and RICHARD DEAN, of Burnley, in the County of Lancaster, for an invention for—"Improvements in looms." *Letters Patent sealed.*

OTWAY. 25th April 1857.

1168. EDMUND WINDER OTWAY, of West Bromwich, in the County of Stafford, Engineer, for an invention for—"Improved apparatus employed in descending and ascending pits or shafts, and raising minerals and other bodies therefrom." *Letters Patent sealed.*

WHITE. 25th April 1857.

1169. WILLIAM WHITE, of Adelaide Street, South Shields, in the County of Durham, Iron Founder, for an invention for—"Improvements in making moulds or matrices employed in casting metals." *Provisional protection only.*

MANN. 25th April 1857.

1170. THOMAS MANN, of Aldbrough, near Boroughbridge in the County of York, for an invention for—"Improvements in horse powers." *Letters Patent sealed.*

SIMPSON. RIMMER. 25th April 1857.

1171. JAMES SIMPSON, and EDWIN RIMMER, both of Manchester, in the County of Lancaster, Carvers and Gilders, for an invention for—"A certain improvement in venetian blinds." *Letters Patent sealed.*

NEWTON. 25th April 1857.

1172. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"The application of certain substances not hitherto used for food, as a source of nutrition and support to the respiratory organs of animals."—*A communication from Henry Wright Adams, of Brooklyn, in the County of Kings, and State of New York, one of the United States of America."* *Letters Patent sealed.*

PRYNN. 25th April 1857.

1173. CHARLES THOMAS PRYNN, of Newton Abbot, in the County of Devon, for an invention for—"An improved apparatus to be used for totally or partially benumbing any part of the human frame previous to a surgical operation, for the purpose of performing the said operations without pain." *Provisional protection only.*

CORY. 25th April 1857.

1174. WILLIAM CORY, Junior, of Gordon Place, Gordon Square, in the County of Middlesex, for an invention for—"An improvement in the manufacture of coke." *Letters Patent sealed.*

BURROW. 25th April 1857.

1175. The Reverend JAMES BURROW, of Ashford Parsonage, Bakewell, for an invention for—"Improvements in coating wrought iron." *Letters Patent sealed.*

PICKSTONE. 25th April 1857.

1176. WILLIAM PICKSTONE, of Radcliffe Bridge, near Manchester, in the County Palatine of Lancaster, for an invention for—"An improvement in preparing or manufacturing dyeing matter, peculiarly applicable to cotton and other vegetable fibres, and useful when dyeing and printing other fibres and fabrics."—*A communication.* *Letters Patent sealed.*

BELSHAW. 25th April 1857.

1177. JOSEPH BELSHAW, of Nottingham, for an invention for—"Improvements in manufacturing knit fabrics." *Letters Patent sealed.*

OLDERSHAW. 25th April 1857.

1178. AUGUSTUS PIGGOTT OLDERSHAW, of Doctors Commons, in the City of London, Proctor, for an invention for—"An improvement in apparatus for skidding the wheels of carriages." *Provisional protection only.*

LARCHIER. 27th April 1857.

1179. AMABLE VICTOR FELIX LARCHIER, Gentleman, of Paris, in the French Empire, for an invention for—"Improvements in the manufacture of gas."—*A communication from Emile Lavezzari, of Beaurain Chateau, in France.* *Provisional protection only.*

COWPER. 27th April 1857.

1180. CHARLES COWPER, of No. 20, Southampton Buildings, Chancery Lane, in the County of Middlesex, Patent Agent, for an invention for—"Improvements in electro-plating and depositing metals."—*A communication from Hyppolite Landois, and Léon Daniel, of Paris, in France.* *Letters Patent sealed.*

DE KEYSER. 27th April 1857.

1181. POLYDORE DE KEYSER, of No. 24, Cannon Street West, in the City of London, Gentleman, for an invention for—"An apparatus for preventing horses slipping."—*A communication.* *Letters Patent sealed.*

THOMPSON. WOODS. 27th April 1857.

1182. WILLIAM THOMPSON, Engineer, of Spring Gardens Engine Works, Newcastle-on-Tyne, and HAMILTON WOODS, Engineer, of the same place, for an invention for—"Improvements in lowering weights by means of cranes, winches, or similar apparatus." *Provisional protection only.*

BARNES. 27th April 1857.

1183. EDMUND F. BARNES, of the City and State of New York, United States of America, for an invention for—"Improvements in telegraphic instruments, and called an 'embossing telegraph.'" *Letters Patent sealed.*

FONTAINEMOREAU. 27th April 1857.

1184. PETER ARMAND LE COMTE DE FONTAINEMOREAU, of No. 4, South Street, Finsbury, London, Patent Agent, for an invention for—"Improvements in obtaining motive-power."—*A communication.* *Letters Patent sealed.*

MACINTOSH. 27th April 1857.

1185. JOHN MACINTOSH, of Euston Place, Euston Square, in the County of Middlesex, for an invention for—"An improvement in the manufacture of air beds, cushions, and other like inflated and fluid tight apparatus or bags." *Letters Patent sealed.*

EDDINGTON. 27th April 1857.

1186. ALFRED EDDINGTON, of Springfield, near Chelmsford, in the County of Essex, for an invention for—"Improvements in machinery for ploughing, tilling, and draining land." *Letters Patent sealed.*

ROTCH. 27th April 1857.

1187. THOMAS DICKASON ROTCH, of Surbiton, Surrey, Kingdom of Great Britain, for an invention for—"Certain new and useful improvements in gas generators."—*A communication from Augustus Allen Hayes (Chemist), a resident of the State of Massachusetts, of the United States of America.* *Letters Patent sealed.*

LEVESLEY. 27th April 1857.

1188. WILLIAM LEVESLEY, of Sheffield, in the County of York, Ivory Carver, for an invention for—"Improvements in manufacturing the blanks of forks, scissors, cutlery, chisels and other tools, which improvements are applicable to the manufacture of springs for pocket knives and other like articles now prepared by the forging process." *Letters Patent sealed.*

BILLIARD. 27th April 1857.

1189. JULIEN BILLIARD, of 20, Red Lion Square, in the County of Middlesex, Importer of Foreign Goods, for an invention for—"Improvements in the arrangements and construction of furnaces and other fireplaces."—*A communication.* *Letters Patent sealed.*

HOCHSTAETTER. 28th April 1857.

1190. HEINRICH HOCHSTAETTER, of Darmstadt, for an invention for—"Improvements in the manufacture of matches." *Letters Patent sealed.*

WITHNALL. 28th April 1857.

1191. JAMES WITHNALL, of Manchester, in the County of Lancaster, Coppersmith, for an invention for—"Certain improvements in the manufacture of rollers or cylinders to be employed for printing calico and other surfaces." *Provisional protection only.*

AGER. 28th April 1857.

1192. WILSON AGER, of Rohrsburg, State of Pennsylvania, United States of America, for an invention for—"An improved mode of hulling and cleaning rice." *Letters Patent sealed.*

BARKER. 28th April 1857.

1193. JAMES BARKER, of Blackfriars Road, in the County of Surrey, Smith, for an invention for—"An improved propeller for ships and vessels." *Provisional protection only.*

SUTHERLAND. 28th April 1857.

1194. KENNETH LEITH SUTHERLAND, of the Junior United Service Club, St. James', Barrister-at-Law, and Paymaster of the Royal Navy, F.R.G.S. &c., for an invention for—"An improved safety candle lantern." *Provisional protection only.*

GILBEE. 28th April 1857.

1195. WILLIAM ARMAND GILBEE, of No. 4, South Street, Finsbury, London, Patent Agent, for an invention for—"An improved mode of reefing and reducing top sails."—*A communication from Isaac Boss, of New York, United States of America.* *Letters Patent sealed.*

GRUNDY. 28th April 1857.

1196. DENNIS GRUNDY, of Tyldesley, in the County of Lancaster, Boot, Shoe, Clog and Patten Maker, for an invention for—"Improvements in the manufacture of boots, shoes and clogs." *Provisional protection only.*

JONES. EDWARDS. 28th April 1857.

1197. WRIGHT JONES, of Pendleton, in the County of Lancaster, and THOMAS EDWARDS, of Eccles, in the said County, Engineers, for an invention for—"An improved lubricator." *Provisional protection only.*

RAMSBOTTOM. BAILEY. 28th April 1857.

1198. JOHN RAMSBOTTOM, of Accrington, in the County of Lancaster, and JOHN BAILEY, of Salford, in the said county, Engineers, for an invention for—"Improvements in regulating the flow and pressure of liquids and fluids."—*Letters Patent sealed.*

NEWTON. 28th April 1857.

1199. GEORGE NEWTON, of Upper Thames Street, in the City of London, Carpenter and Builder, for an invention for—"Improvements in copying and other presses." *Provisional protection only.*

CHADWICK. FROST. 28th April 1857.

1200. DAVID CHADWICK, of Salford, in the County of Lancaster, Gentleman, and HERBERT FROST, of Manchester, in the same County, Machinist, for an invention for—"Improvements in apparatus for measuring water and other liquids and gas, applicable also to the purpose of obtaining motive-power." *Letters Patent sealed.*

REED. 29th April 1857.

1201. JOSEPH HAYTHORNE REED, of Charles Street, Berkeley Square, in the County of Middlesex, a Major in Her Majesty's Army, for an invention for—"Improvements in propelling ships or vessels." *Provisional protection only.*

PASCALL. 29th April 1857.

1202. CHARLES PASCALL, of Norwood, in the County of Surrey, Engineer, for an invention for—"Improvements in tile-making machinery."—*Letters Patent sealed.*

AITKEN. 29th April 1857.

1203. JOHN AITKEN, of Essex Street, Islington, in the County of Middlesex, Gentleman, for an invention for—"An improvement in furnaces for melting the materials of glass, iron, and other metals, and for boiling water and other substances."
Provisional protection only.

HOW. 29th April 1857.

1204. ANDREW PEDDIE HOW, of Mark Lane, in the City of London, Engineer, for an invention for—"An improved cork holder for bottles and other vessels."
Provisional protection only.

CURTIS. 29th April 1857.

1205. WILLIAM JOSEPH CURTIS, of Crown Court, Old Broad Street, in the City of London, Civil Engineer, for an invention for—"Improvements in apparatus to facilitate passengers ascending to and descending from the roofs of omnibuses."
Provisional protection only.

RÉVEL-BUSQUET. 29th April 1857.

1206. AIMABLE ANTOINETTE RÉVEL-BUSQUET, of 39, Rue de l'Echiquier, Paris, in the Empire of France, and of 4, South Street, Finsbury, London, for an invention for—"Certain improvements in artificial flowers." *Provisional protection only.*

MENUSIER. 29th April 1857.

1207. FRANÇOIS MENUSIER, of 39, Rue de l'Echiquier, Paris, in the Empire of France, and of 4, South Street, Finsbury, London, Gentleman, for an invention for—"An improved bee-hive." *Provisional protection only.*

BOTTOMLEY. HODSON. FIELDEN. 29th April 1857.

1208. JOSEPH BOTTOMLEY, of Rochdale, in the County of Lancaster, Spinner, CHRISTOPHER HODSON, of the same place, and WILLIAM FIELDEN, of the same place, Manager, for an invention for—"Improvements in mules for spinning."
Letters Patent sealed.

BARTHOLOMEW. 29th April 1857.

1209. GEORGE BARTHOLOMEW, of the Town and County of Linlithgow, North Britain, Edge Tool Maker, for an invention for—"Improvements in tanners' and curriers' knives." *Provisonal protection only.*

JOHNSON. 29th April 1857.

1210. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of 166, Buchanan Street, in the City of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in apparatus for distilling, applicable also to the extraction of oils, colouring matters and essences, and to the purification of gums."—(*A communication from Poe Edouard Lemettais, and Michel Boniere the younger, both of Rouen, in the Empire of France.* *Letters Patent sealed.*

WALTON. 30th April 1857.

1211. FREDERICK WALTON, of Haughton Dale Mills, near the City of Manchester, Card Manufacturer, for an invention for—"Certain improvements in the manufacture of plastic compositions." *Letters Patent sealed.*

WALTON. 30th April 1857.

1212. FREDERICK WALTON, of Haughton Dale Mills, near the City of Manchester, Card Manufacturer, for an invention for—"Improvements in the manufacture of wire cards for metallic brushes and for carding fibrous substances, and in the machinery employed therein." *Letters Patent sealed.*

BALL. 30th April 1857.

1213. HENRY BALL, Gun Maker, Great Russell Street, Birmingham, for an invention for—"Improvements in repeating and other fire-arms.
Letters Patent sealed; no specification filed.

SPOONER. 30th April 1857.

1214. LUCIUS HENRY SPOONER, of Munlochy, in the County of Ross, North Britain, Agricultural Engineer and Farmer, for an invention for—"A new or improved manufacture of paper and paper pulp." *Letters Patent sealed.*

BARCROFT. 30th April 1857.

1215. BARNARD BARCROFT, of Radcliffe Hall, near Manchester, in the County of Lancaster, Manufacturing Chemist, for an invention for—"Improvements in dyeing and printing." *Letters Patent sealed.*

BALDWIN. 30th April 1857.

1216. THOMAS BALDWIN, of Bury, in the County of Lancaster, Civil Engineer, for an invention for—"Improvements in indicators for registering pressure."
Letters Patent sealed.

M'DOWALL. 30th April 1857.

1217. JOHN M'DOWALL, of Walkinshaw Foundry, Johnstone, in the County of Renfrew, North Britain, Engineer, for an invention for—"Improvements in steam hammers." *Provisional protection only.*

MORTIMER. 30th April 1857.

1218. SAMUEL MORTIMER, of Halifax, in the County of York, Mechanic, for an invention for—"Improvements in 'screw gill boxes' used in the preparation of wool and other fibrous substances." *Letters Patent sealed.*

NEWTON. 30th April 1857.

1219. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improved machinery for moulding and pressing bricks.—*A communication.* *Letters Patent sealed.*

CAMMELL. 30th April 1857.

1220. CHARLES CAMMELL, of Sheffield, in the County of York, Steel Manufacturer, for an invention for—"Improvements in the manufacture of axles or axletrees for railway carriages, and shafts for various purposes." *Letters Patent sealed.*

POWERS. 30th April 1857.

1221. GEORGE POWERS, of Wellclose Square, in the County of Middlesex, Smith, for an invention for—"An improved scuttle for ships." *Letters Patent sealed.*

HALE. 30th April 1857.

1222. THOMAS FREDERICK HALE, of the firm of Thomas Hale and Sons, of the City of Bristol, Founders, for an invention for—"An improved tap or cock." *Provisional protection only.*

LEWIS. 30th April 1857.

1223. SAMUEL ROBERT LEWIS, of 11, Catherine Street, London, E., in the County of Middlesex, for an invention for—"Improvements in trousers." *Provisional protection only.*

BOUSFIELD. 30th April 1857.

1224. GEORGE TOMLINSON BOUSFIELD, of Loughborough Park, Brixton, in the County of Surrey, for an invention for—"Improvements in collapsible boats and pontoons."—*A communication from Nathan Thompson, junior, of Brooklyn (Eastern District), Kings County, New York, United States of America.* *Complete specification; Letters Patent sealed.*

COLLINS. 30th April 1857.

1225. JOHN COLLINS, of Birmingham, in the County of Warwick, Civil Engineer, for an invention for—"Improvements in furnaces and flues, and in kilns and drying chambers." *Letters Patent sealed.*

ANDERSON. 30th April 1857.

1226. JAMES ANDERSON, of Glasgow, in the County of Lanark, North Britain, Starch Manufacturer, for an invention for—"Improvements in the treatment, application and use of maize or Indian corn." *Letters Patent sealed.*

AVERY. 1st May 1857.

1227. JOHN AVERY, of 32, Essex Street, Strand, in the County of Middlesex, Patent Agent, for an invention for—"An improved washing or fulling machine."—*A communication from Jean Louis Boucher.* *Provisional protection only.*

BARTEAU. GUY. CORROY. 1st May 1857.

1228. PIERRE ALEXANDRE BARTEAU, GABRIEL GUY, and CHARLES CORROY, all of Paris, in the Empire of France, for an invention for—"Improvements in the production of artificial stone." *Provisional protection only.*

HAWKES. 1st May 1857.

1229. EDWARD HAWKES, of Birmingham, in the County of Warwick, Tobacconist, for an invention for—"New or improved machinery for the manufacture of pipes for smoking." *Letters Patent sealed.*

RATCLIFFE. 1st May 1857.

1230. JOHN RATCLIFFE, of Blackburn, in the County of Lancaster, Cotton Manufacturer, for an invention for—"Improvements in preparing or in machinery for preparing yarns or threads for weaving." *Provisional protection only.*

JOHNSON. 1st May 1857.

1231. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of 166, Buchanan Street, in the City of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in apparatus for preventing collisions at sea."—*A communication from Messrs Trève and Felix Pitel, both of Brest, in the Empire of France.* *Letters Patent sealed.*

BLANDY. 1st May 1857.

1232. ALFRED A. BLANDY, M.D., D.D.S., of the City and County of Baltimore, and State of Maryland, in the United States of America, for an invention for—"An improved mode of moulding and casting the plates or bases of artificial teeth." *Letters Patent sealed.*

LEAKE. SYKES. 1st May 1857.

1233. RICHARD LEAKE, and MATTHEW SYKES, both of Barnsley, in the County of York, for an invention for—"Improvements in consuming smoke and generating heat in furnaces of steam-engine or other boilers, also heating the feed water of the said boilers, therefore economizing fuel to a great extent." *Letters Patent sealed.*

HILTON. 2nd May 1857.

1234. SAMUEL HILTON, of Albion Street, Bethnal Green, Engineer, for an invention for—"Certain improvements in furnaces." *Provisional protection only.*

TUCKER. 2nd May 1857.

1235. EDWARD TUCKER, of Belfast, in the County of Antrim, Ireland, Starch Manufacturer, for an invention for—"Improvements in the manufacture of starch." *Letters Patent sealed.*

HELY.
2nd May 1857.

1236. ALFRED AUGUSTUS DE REGINALD HELY, of Oxford Street, in the County of Middlesex, Glass Merchant, for an invention for—" Certain improvements applicable in the burning of gas." *Provisional protection only.*

JONES.
2nd May 1857.

1237. PRIME RABAN JONES, of No. 22, Clapham Rise, in the County of Surrey, for an invention for—" An improved composition for the purpose of curing or preventing the scab in sheep and lambs, which will also greatly promote the growth of the wool, and destroy ticks, lice and other vermin or impurities, keep the skin clean and healthy, and cure the mange in horses, dogs, and other animals." *Provisional protection only.*

LEVY.
2nd May 1857.

1238. HENRY LEVY, of High Street, Sheffield, in the County of York, Clothier, for an invention for—" Improvements in moleskins, velveteens, cords and such like materials." *Letters Patent sealed.*

CHÂTEL.
2nd May 1857.

1239. CHARLES CHÂTEL, Draughtsman, of Paris (France), and of 45, Essex Street, Strand, London, for an invention for—" Improvements in the manufacture of blinds, screens, reflectors, and other articles of a similar nature." *Provisional protection only.*

PATERSON.
2nd May 1857.

1240. ALEXANDER JOHN PATERSON, of Edinburgh, Esquire, for an invention for—" An improved method of constructing and propelling vessels." *Letters Patent sealed.*

DAVY.
BENTLEY.
2nd May 1857.

1241. JOSEPH DAVY, Machine Maker, and WILLIAM BENTLEY, Overlooker, both of Bradford, in the County of York, for an invention for—" Certain improvements in looms for weaving fibrous substances." *Letters Patent sealed.*

GREENHOW.
2nd May 1857.

1242. JOSEPH SEELIE GREENHOW, of Chelmsford, in the County of Essex, for an invention for—" An improvement in alarum apparatus when using electric currents." *Letters Patent sealed.*

CAUVILLE.
2nd May 1857.

1243. ADOLPHE LOUIS CAUVILLE, of the Hotel des Bains, Passage du Saumon, Paris, for an invention for—" Improvements in the manufacture of shoes and boots." *Letters Patent sealed.*

TILGHMAN.
2nd May 1857.

1244. BENJAMIN CHEW TILGHMAN, of Philadelphia, United States of America, for an invention for—" Improvements in treating fatty and oily substances." *Letters Patent sealed.*

MARLAND.
2nd May 1857.

1245. JOHN MARLAND, of Lawrence, in the State of Massachusetts, United States of America, Manufacturer, for an invention for—" Improvements in cop tubes used in spinning." *Letters Patent sealed.*

WILEY.
2nd May 1857.

1246. WILLIAM EDWARD WILEY, of 34, Great Hampton Street, Birmingham, Pen and Pencil Manufacturer, for an invention for—" Improvements in boxes or cases for containing needles, leads for pencils, pens, and other articles." *Letters Patent sealed.*

BOOTH.
2nd May 1857.

1247. JOHN PETER BOOTH, of Cork, in the Kingdom of Ireland, Feather Purifier, for an invention for—" An improved manufacture of stuffing for beds, couches, cushions, and other seats." *Letters Patent sealed.*

FAIRBAIRN.
MARSDEN.
2nd May 1857.

1248. PETER FAIRBAIRN, of Leeds, in the County of York, Machinist, and THOMAS MARSDEN, of Broughton, near Manchester, in the County of Lancaster, Gentleman, for an invention for—" Improvements in machinery for heckling flax, hemp, tow, and other fibrous materials." *Letters Patent sealed.*

COOKE.
2nd May 1857.

1249. TERTIUS JOHN COOKE, of Wolverhampton, in the County of Stafford, Gentleman, for an invention for—" Improvements in the manufacture of knobs, roses, and escutcheons used for doors, drawers, shutters, and other similar purposes." *Letters Patent sealed.*

FOX.
4th May 1857.

1250. JOHN FOX, of Preston, in the County of Lancaster, Builder, for an invention for—" Improvements in the music scale and musical instruments." *Letters Patent sealed.*

GATTI.
4th May 1857.

1251. AGOSTINO GATTI, of No. 20, Coppice Row, Clerkenwell, London, for an invention for—" Improvements in the making of all kinds of seeds, buds and fruits for artificial flowers and fruits." *Letters Patent sealed.*

STANLEY. 4th May 1857.

1252. JOHN STANLEY, Mechanical Engineer, of No. 244, Whitechapel Road, in the Parish of St. Mary Whitechapel, in the County of Middlesex, for an invention for—"Improvements in the construction and mode of applying cranes and other hoisting machines to hoisting, suspending, lowering, and weighing purposes, also in generating, transmitting, and applying motive-power for the same." *Letters Patent sealed.*

MOSELEY. 4th May 1857.

1253. THOMAS BEEBY MOSELEY, of No. 52, Upper Charlotte Street, Fitzroy Square, in the County of Middlesex, for an invention for—"An improved pneumatic holder adapted for photographic and other purposes." *Provisional protection only.*

HOWARD. HOWARD. 4th May 1857.

1254. JOSEPH HOWARD, the younger, and WILLIAM HOWARD, both of Market Place, Leek, in the County of Stafford, Ironmongers, for an invention for—"Improved apparatus for the manufacture of cheese." *Provisional protection only.*

WILEY. 4th May 1857.

1255. WILLIAM EDWARD WILEY, of 34, Great Hampton Street, Birmingham, Pen and Pencil Manufacturer, for an invention for—"Improvements in ever-pointed pencils." *Letters Patent sealed.*

LESLIE. 4th May 1857.

1256. JOHN LESLIE, of Conduit Street, St. George's, Hanover Square, in the County of Middlesex, for an invention for—"Improvements in apparatus for ventilating buildings." *Letters Patent sealed.*

DESBOROUGH. 4th May 1857.

1257. SPENDLOVE DESBOROUGH, of 42, Noble Street, in the City of London, for an invention for—"An improvement in the manufacture of the seal flaps of envelopes and letter paper." *Provisional protection only.*

WAY. 4th May 1857.

1258. JOHN THOMAS WAY, of Welbeck Street, in the County of Middlesex, for an invention for—"Improvements in obtaining light by electricity, and in employing light so obtained for lighthouses and for giving signals." *Letters Patent sealed.*

TRAVIS. 4th May 1857.

1259. GEORGE TRAVIS, of Mercaston, Derby, for an invention for—"Improvements in apparatus used in the manufacture of cheese." *Letters Patent sealed.*

PETIET. 4th May 1857.

1260. JULES ALEXANDRE PETIET, of No. 34, Rue Lafayette, Paris, Engineer, for an invention for—"Improvements in actuating railway breaks." *Letters Patent sealed.*

TURNER. 4th May 1857.

1261. ARCHIBALD TURNER, of Leicester, Elastic Web Manufacturer, for an invention for—"Improvements in the manufacture of elastic fabrics, and for the application of such fabrics to the manufacture of boots and shoes." *Provisional protection only.*

DAVIS. 4th May 1857.

1262. EDWARD DAVIS, of Leeds, in the County of York, Optician, for an invention for—"An improved construction of pressure gauge." *Letters Patent sealed.*

HEYWOOD. 4th May 1857.

1263. BENNETT JOHNS HEYWOOD, of Leicester Square, in the County of Middlesex, Gentleman, for an invention for—"An improved construction of self-closing valve, and means for rendering the same applicable for supplying or discharging air, water, and other fluids." *Provisional protection only.*

HERRERO. 5th May 1857.

1264. JUSTE HERRERO, of 53, Rue Vivienne, Paris, in the Empire of France, Gentleman, for an invention for—"An improved inking and stamping machine." *Letters Patent sealed.*

PITMAN. 5th May 1857.

1265. JOHN TALBOT PITMAN, of the American and European Patent Office, No. 67, Gracechurch Street, London, for an invention for—"An Improvement in the construction of curry combs."—*A communication.* *Letters Patent sealed.*

SIEVIER. 5th May 1857.

1266. ROBERT WILLIAM SIEVIER, a British Subject, now residing at No. 8, Rue du Coif, Brussels, in the Kingdom of Belgium, for an invention for—"An improvement in the mode of treating saccharine juices in the manufacture of sugar." *Complete specification; Letters Patent sealed.*

KEDDY. 5th May 1857.

1267. THOMAS KEDDY, of Birmingham, in the County of Warwick, Factor, for an invention for—"New or improved machinery for cutting sugar and other substances." *Provisional protection only.*

COTTAM. 5th May 1857.

1268. LOUIS LE CHEVALIER COTTAM, of Wimsley Street, Oxford Street, in the County of Middlesex, for an invention for—"Improvements in stable fittings." *Letters Patent sealed.*

PAUL. 5th May 1857.

1269. WILLIAM BOND PAUL, of Langport, in the County of Somerset, Gentleman, for an invention for—"Improvements in signalling upon railways."
Letters Patent sealed.

WILKINS. 5th May 1857.

1270. WILLIAM WILKINS, of Wapping, in the County of Middlesex, Wire Rope Maker, for an invention for—"An improved method of laying submarine telegraph cables." *Letters Patent sealed.*

EASTERBROOK. DRURY. 5th May 1857.

1271. JOHN EASTERBROOK, and ROBERT FRANCIS DRURY, both of Sheffield, in the County of Yorkshire, Engineers' Tool Manufacturers, for an invention for—"Improvements in machinery or tools for drilling and boring."
Provisional protection only.

HOOLE. 5th May 1857.

1272. HENRY ELLIOTT HOOLE, of the Green Lane Works, Sheffield, in the County of York, Stove Grate and Fender Manufacturer, for an invention for—"Improvements in stove grates." *Letters Patent sealed.*

BISSELL. 5th May 1857.

1273. LEVI BISSELL, of the City and State of New York, United States of America, for an invention for—"Improvements in trucks for locomotive engines."
Letters Patent sealed.

BECKER. 6th May 1857.

1274. JOHANN PHILIPPE BECKER, of No. 51, Rue Doudeauville, à la Chapelle St. Denis, Paris, France, for an invention for—"Improvements in the mode of silvering animal, vegetable, and mineral objects." *Letters Patent sealed.*

GEYELIN. 6th May 1857.

1275. GEORGE KENNEDY GEYELIN, of 4, Lothbury, London, Civil Engineer, for an invention for—"Making oscillating spring laths for beds, couches and other purposes." *Letters Patent sealed.*

HINGLEY. HINGLEY. 6th May 1857.

1276. BENJAMIN HINGLEY, of Cradley, in the County of Worcester, Manufacturer, and SAMUEL HINGLEY, of Cradley aforesaid, Manufacturer, for an invention for—"Improvements in anchors." *Provisional protection only.*

HOOD. 6th May 1857.

1277. WILLIAM HOOD, of Edgbaston, in the County of Warwick, of the firm of Watts, Kerr and Hood, Spirit Merchants, of Liverpool, for an invention for—"An improved charcoal filter for rectifying and cleansing spirits, and which is also applicable for filtering water and other fluids." *Letters Patent sealed.*

ROPES. 6th May 1857.

1278. HENRY TIBBETS ROPES, of Liverpool, in the County of Lancaster, Ice Merchant, for an invention for—"Improvements in refrigerators or portable ice houses."—*A communication.* *Provisional protection only.*

KINDER. 6th May 1857.

1279. ARTHUR KINDER, of the City of Worcester, Coach Manufacturer, for an invention for—"Improvements in cutting irregular forms and in the machinery or apparatus employed therein or connected therewith." *Letters Patent sealed.*

HOGARTH. 6th May 1857.

1280. HENRY HOGARTH, of 1ª, Adelphi Terrace, Strand, for an invention for—"An improved apparatus for raising and floating vessels or other heavy bodies."
Letters Patent sealed; no specification filed.

SEMPLE. 6th May 1857.

1281. MATTHEW SEMPLE, of Stonehouse, Plymouth, in the County of Devon, for an invention for—"An improved pipe, tube, or stem." *Letters Patent sealed.*

BOUSFIELD. 6th May 1857.

1282. GEORGE TOMLINSON BOUSFIELD, of Loughborough Park, Brixton, in the County of Surrey, for an invention for—"Improvements in machinery for pulverizing clay and other substances."—*A communication.* *Letters Patent sealed.*

NEWTON. 6th May 1857.

1283. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improved machinery for manufacturing paper, part of which is applicable to other purposes."—*A communication.* *Letters Patent sealed.*

NEWTON. 6th May 1857.

1284. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in locks for doors, safes, and other purposes."—*A communication.*—*Letters Patent sealed.*

SCHWAB. 6th May 1857.

1285. FREDERICK MARTIN SCHWAB, of Carlisle Street, in the County of Middlesex, Engineer, for an invention for—"Improvements in breech loading fire-arms."
Provisional protection only.

FONTAINEMOREAU. 6th May 1857.

1286. PETER ARMAND LE COMTE DE FONTAINEMOREAU, of London, Paris, and Brussels, Patent Solicitor, for an invention for—"Improvements in the preservation of grain and alimentary substances in general."—*A communication.*
Letters Patent sealed.

ZIEGLER. 7th May 1857.

1287. ERNS ZIEGLER, of Heilbronn, in the Kingdom of Wurtemburg, for an invention for—"A substitute for animal charcoal, applicable also as a colouring matter." *Letters Patent sealed.*

MACKWORTH. 7th May 1857.

1288. HERBERT MACKWORTH, of Clifton, in the County of Gloucester, Mining and Civil Engineer, for an invention for—"Improvements in the classification, preparation, and treatment of mineral substances, coke, and furnace cinders, and in removing and depositing such substances, and in machinery and apparatus for such purposes." *Letters Patent sealed.*

RAMIÉ. 7th May 1857.

1289. CHARLES WILLIAM RAMIÉ, of Camberwell, in the County of Surrey, for an invention for—"Improvements in the mode of attaching knobs to spindles." *Letters Patent sealed.*

BENNETT. 7th May 1857.

1290. RICHARD BENNETT, of Redditch, in the County of Worcester, Needle Finisher, for an invention for—"A new or improved method of papering needles or making up needles for sale." *Letters Patent sealed.*

MORRISON. 7th May 1857.

1291. DUNCAN MORRISON, of Bordesley Works, Birmingham, in the County of Warwick, for an invention for—"A new or improved manufacture of rollers or cylinders for printing fabrics." *Letters Patent sealed.*

ABERDEIN. 7th May 1857.

1292. WILLIAM CHARLES ABERDEIN, of No. 16, Shepperton Cottages, New North Road, Islington, Commercial Traveller, for an invention for—"The tubular elastic fastener and stud for gentlemen's shirt collars and wristbands and other garments." *Provisional protection only.*

LLOYD. 7th May 1857.

1293. SAMUEL LLOYD, Junior, of Wednesbury, Staffordshire, Engineer, for an invention for—"Improvements in the manufacture of railway wheels, axles, and tyres." *Provisional protection* NOT *granted.*

BRIGHT. DE BERGUE. 7th May 1857.

1294. CHARLES TILSTON BRIGHT, of Harrow, in the County of Middlesex, Engineer, and CHARLES DE BERGUE, of Dowgate Hill, in the City of London, Engineer, for an invention for—"Improvements in apparatus to be employed in the laying or sinking of submarine telegraph cables." *Letters Patent sealed.*

STENHOUSE. 7th May 1857.

1295. JOHN STENHOUSE, of 15, Upper Barnsbury Street, Islington, for an invention for—"Improvements in the manufacture of various kinds of glue or gelatine." *Letters Patent sealed; no specification filed.*

DOLLÉANS. 7th May 1857.

1296. LOUIS CHARLES DOLLÉANS, Lithographic Printer, of Paris, and of 45, Essex Street, Strand, London, for an invention for—"Improvements in ornamenting porcelain, china, opal-glass and similar products, by lithographic, chromo-lithographic printing and gilding." *Letters Patent sealed.*

PRICE. 7th May 1857.

1297. GEORGE BROOK PRICE, of the Town and County of Bedford, Engineer, for an invention for—"Improvements in apparatus for affixing stamps and labels to letters and documents." *Provisional protection only.*

CRAWFORD. 7th May 1857.

1298. JOHN CRAWFORD, of Glasgow, in the County of Lanark, North Britain, Iron Founder, for an invention for—"Improvements in heating and cooking apparatus." *Provisional protection only.*

HEDGELY. 7th May 1857.

1299. JAMES HEDGELY, of Westbourne Street, Eaton Square, in the County of Middlesex, for an invention for—"Improvements in lamps for railway carriages." *Provisional protection only.*

CAMBRIDGE. 7th May 1857.

1300. WILLIAM COLBORNE CAMBRIDGE, of Bristol, Agricultural Implement Maker, for an invention for—"Improved machinery for winnowing corn and separating seeds." *Letters Patent sealed.*

WOODWARD. 8th May 1857.

1301. FREDERICK GRINDLEY HOWARD WOODWARD, of No. 3, Horatio Terrace, Trafalgar Road, Old Kent Road, for an invention for—"Medicine for the cure of Dropsy." *Provisional protection only.*

TAYLER. 8th May 1857.

1302. CALEB TAYLER, of Deptford, in the County of Kent, Gentleman, for an invention for—"Improvements in the manufacture of sheets of material suitable for covering floors and for other useful purposes." *Letters Patent sealed.*

DARBY. 8th May 1857.

1303. CHARLES EDWARD DARBY, of Brymbo Iron Works, near Wrexham, for an invention for—"Improvements in collecting the inflammable gases generated in blast furnaces." *Letters Patent sealed.*

LIPKAU. 8th May 1857.

1304. THEODORE LIPKAU, of No. 39, Rue de l'Echiquier, Paris, in the Empire of France, and of 4, South Street, Finsbury, London, Doctor of Medicine, for an invention for—"An improved anti-syphilitic compound." *Letters Patent sealed.*

SCHLESINGER. 8th May 1857.

1305. JOSEPH WILLIAM SCHLESINGER, of the Grove, South Lambeth, in the County of Surrey, Manufacturer, for an invention for—"Improvements in the backs and covers of account books and other books."—*A communication.* *Letters Patent sealed.*

HEINEMANN. HEINEMANN. 8th May 1857.

1306. LOUIS HEINEMANN, and ARNOLD HEINEMANN, of the City of Manchester, in the County of Lancaster, for an invention for—"Improvements in waterproofing woven fabrics and fibrous materials." *Provisional protection only.*

GLOVER. 9th May 1857.

1307. WILLIAM GLOVER, of the City of Manchester, Composer of Music, for an invention for—"Improvements in machinery for weaving." *Provisional protection only.*

HEPPELL. 9th May 1857.

1308. GEORGE HEPPELL, of Uttoxeter, in the County of Stafford, Engineer, for invention for—"Improvements in ventilating mines and such like places." *Letters Patent sealed.*

HEBDON. 9th May 1857.

1309. WILLIAM HEBDON, of the Pavilion, Weedon, in the County of Northampton, Inspector of Army Cloth, for an invention for—"Testing the strength of woollen cloth, linen and all other woven fabrics, also of every description of material upon which a strain can be exerted." *Provisional protection only.*

FRANCIS. ORD. 9th May 1857.

1310. JOHN HENRY FRANCIS, of 53, Ossulston Street, St. Pancras, and ROBERT ORD, of Morpeth Cottage, East Street, Islington, both in the County of Middlesex, for an invention for—"Improvements in the means and apparatus employed for cleaning casks." *Provisional protection only.*

MILES. 9th May 1857.

1311. WILLIAM PLAYER MILES, of 4, Dartmouth Villas, Perry Vale, Sydenham, in the County of Kent, for an invention for—"An improved guage cutting machine." *Letters Patent sealed.*

MACCARTHY. 9th May 1857.

1312. JOHN SAXON MACCARTHY, of Newman Street, Oxford Street, in the County of Middlesex, Artist, for an invention for—"Improvements in driving or ramming paving blocks and other surfaces." *Provisional protection only.*

WATKINS. 9th May 1857.

1313. FRANCIS WATKINS, of the Victoria Works, Smethwick, near Birmingham, for an invention for—"Improvements in machinery for making rivets, bolts, and spikes."—*A communication.* *Provisional protection only.*

HOW. 9th May 1857.

1314. ANDREW PEDDIE HOW, of Mark Lane, in the City of London, Engineer, for an invention for—"Improvements in circular brushes for sweeping boiler and other tubes." *Provisional protection only.*

PYM. 9th May 1857.

1315. JOHN PYM, of Pimlico, in the County of Middlesex, Gentleman, for an invention for—"Improvements in machinery to be employed on the water for raising and lowering weights." *Letters Patent sealed.*

HOBBS. EASTON. 9th May 1857.

1316. HENRY HOBBS, of Cambridge Street, Saint Pancras, in the County of Middlesex, Contractor, and EDWARD EASTON, of the Grove, Southwark, in the County of Surrey, Engineer, for an invention for—"An improved mode of preventing the incrustation of steam-boilers." *Letters Patent sealed.*

WILSON. 11th May 1857.

1317. ROBERT WILSON, of Patricroft, near the City of Manchester, Engineer, for an invention for—"Improvements in machinery or apparatus for raising or forcing fluids." *Letters Patent sealed.*

MYERS. 11th May 1857.

1318. JAMES JOHN MYERS, of 17, Bugle Street, and Caxton Machine Works, back of the Walls, both in the Town and County of Southampton, Engineer and Machinist, for an invention for—"A new method of regulating paper laid on to be printed on one or both sides at and by cylinder printing machines, by means of guides, whereby the present waste of paper in progress of printing is avoided." *Letters Patent sealed.*

DAWSON. 11th May 1857.

1319. ALFRED DAWSON, of 14, Barnes Place, Mile End Road, in the Parish of St. Dunstans Stepney, in the County of Middlesex, Engineer, for an invention for—"An improved wrought iron cock suitable for water, steam, or gas." *Provisional protection only.*

SIEMENS. 11th May 1857.	1320. CHARLES WILLIAM SIEMENS, of John Street, Adelphi, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in furnaces and in the application of heated currents." *Letters Patent sealed.*
MILLER. 11th May 1857.	1321. JOHN MILLER, of New Lanark, in the County of Lanark, North Britain, Manager, for an invention for—"Improvements in oil cans or apparatus for lubricating machinery." *Letters Patent sealed.*
MILLER. 11th May 1857.	1322. JOHN MILLER, of New Lanark, in the County of Lanark, North Britain, Manager, for an invention for—"Improvements in water meters." *Letters Patent sealed.*
BORRON. 11th May 1857.	1323. WILLIAM GEDDES BORRON, of Glasgow, in the County of Lanark, North Britain, Glass Manufacturer, for an invention for—"Improvements in closing or stoppering bottles, jars, and other receptacles." *Provisional protection only.*
MUCKLOW. 11th May 1857.	1324. JOHN DAVIES MUCKLOW, of Blackford Bridge, in the County of Lancaster, Calico Printer, for an invention for—"Certain improvements in the manufacture of rollers or cylinders to be employed for printing calico and other surfaces." *Letters Patent sealed.*
FITTON. HALL. 11th May 1857.	1325. RICHARD FITTON, of Oldham, in the County of Lancaster, Cotton Spinner, and SAMUEL HALL, of the same place, Overlooker, for an invention for—"Certain improvements in machinery or apparatus for spinning cotton and other fibrous substances." *Provisional protection only.*
HALLETT. 11th May 1857.	1326. SAMUEL HALLETT, of Clarges Street, Piccadilly, in the County of Middlesex, for an invention for—"Improvements in pianofortes."—*A communication from Joseph Becker, of the City of New York.* *Letters Patent sealed.*
NEWTON. 11th May 1857.	1327. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"Improved machinery for cutting veneers."—*A communication.* *Letters Patent sealed.*
HALL. CHARLTON. 11th May 1857.	1328. COLLINSON HALL, of Knavestock, in the County of Essex, Esquire, and THOMAS CHARLTON, of Brentwood, in the same County, Engineer, for an invention for—"Improvements in agricultural engines and implements used therewith for ploughing and cultivating the soil." *Letters Patent sealed.*
BROOMAN. 11th May 1857.	1329. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, E.C., Patent Agent, for an invention for—"An improved locomotive apparatus for railway and ordinary roads."—*A communication.* *Provisional protection only.*
FONTAINEMOREAU. 12th May 1857.	1330. PETER ARMAND LE COMTE DE FONTAINEMOREAU, of London, Paris, and Brussels, Patent Solicitor, for an invention for—"An improved hydraulic motor."—*A communication.* *Letters Patent sealed.*
COTTERILL. 12th May 1857.	1331. EDWIN COTTERILL, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"A new or improved method of preventing the picking of ordinary locks and other fastenings." *Provisional protection only.*
BUSSON. 12th May 1857.	1332. CLAUDE ANTOINE BUSSON, of Paris (France), Engineer, for an invention for—"Improvements in rotary engines." *Provisional protection only.*
CARBONINO. 12th May 1857.	1333. ROSE CELESTINE CARBONINO (Widow De Favre), of Paris (France), for an invention for—"Improvements in nose bags." *Provisional protection only.*
WESTLAKE. 12th May 1857.	1334. JOHN WESTLAKE, of Helstone, in the County of Cornwall, Mining Agent, for an invention for—"Improvements in cleaning, separating and dressing ores of pulverised tin, copper, lead, silver, and other minerals, ores, and substances." *Provisional protection only.*
MALCOLM. 12th May 1857.	1335. JAMES DRYSDALE MALCOLM, of 47, Leicester Square, for an invention for—"Improvements in the construction of buffing apparatus for railway engines and carriages." *Letters Patent sealed.*
BARLOW. MILLS. 12th May 1857.	1336. WILLIAM HENRY BARLOW, of Derby, Civil Engineer, and WILLIAM HEMINGWAY MILLS, of Great George Street, Westminster, Civil Engineer, for an invention for—"Improvements in the permanent ways of railways." *Provisional protection only.*
LAMBERT. WAKEFIELD. 12th May 1857.	1337. THOMAS LAMBERT, of Short Street, New Cut, and OBED WAKEFIELD, of 23, Lambeth Terrace, Lambeth, in the County of Surrey, for an invention for—"Improvements in apparatus for drawing off water and other fluids."—*Letters Patent sealed.*

DUBOIS. 12th May 1857.

1338. JULIEN CHARLES DUBOIS, of 63, Rue de Cherche Midi, Paris, Statuaire, for an invention for—"Improvements in castors." *Provisional protection only.*

BROOMAN. 12th May 1857.

1339. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, E.C., Patent Agent, for an invention for—"Improvements in the preparation of steel, and in the steeling or manufacture of tyres, shafts, axles, and other forgings."—*A communication.* *Letters Patent sealed.*

COCHRANE. 12th May 1857.

1340. JOHN RICHARD COCHRANE, of Glasgow, in the County of Lanark, North Britain, Manufacturer, for an invention for—"Improvements in the treatment or manufacture of ornamental fabrics." *Letters Patent sealed.*

NEWTON. 12th May 1857.

1341. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in furnaces, specially adapted to the generation of steam for motive-power, but applicable to furnaces for other purposes."—*A communication.* *Letters Patent sealed.*

MASSEY. SMITH. 12th May 1857.

1342. WILLIAM MASSEY, and JOHN SMITH, of Newport, in the County of Salop, Engineers, for an invention for—"Improvements in machinery for ploughing and cultivating land." *Letters Patent sealed.*

MASSEY. 12th May 1857.

1343. WILLIAM MASSEY, of Newport, in the County of Salop, Engineer, for an invention for—"Improvements in engines for the cultivation of land by steam power." *Letters Patent sealed.*

BRIGGS. STARKEY. 13th May 1857.

1344. THOMAS BRIGGS, of 173, Woodhouse Lane, Leeds, Yorkshire, and JOHN STARKEY, of 12, Parker Street, Liverpool, in the County of Lancaster, Machinists, for an invention for—"Improvements in machines for washing, wringing and mangling." *Letters Patent sealed.*

YELDHAM. 13th May 1857.

1345. STEPHEN YELDHAM, of No. 9, Stamford Street, London, for an invention for—"The better application and arrangement of indices to books of all kinds." *Letters Patent sealed.*

BONNEY. 13th May 1857.

1346. WILLIAM WOLFE BONNEY, of Fulham, in the County of Middlesex, Manufacturer, for an invention for—"A chemical composition or agent to be employed in lieu of or to be substituted for argol, tartar, and tartaric acid."—*A communication.* *Provisional protection only.*

ELEY. 13th May 1857.

1347. EDWARD ELEY, of the City Road Steam and Hot Water Works, Union Place, City Road, London, in the County of Middlesex, for an invention for—"Improvements in the manufacture and application of pipes for heating purposes." *Letters Patent sealed.*

TOLKEIN. MIDDLETON. 13th May 1857.

1348. HENRY TOLKEIN, of the City of London, and JOSEPH MIDDLETON, of Finsbury, both in the County of Middlesex, for an invention for—"Improvements in pianofortes." *Letters Patent sealed.*

FITZ-GIBBON. 13th May 1857.

1349. ABRAHAM FITZ-GIBBON, of Canada, now residing in England, at the City of Bath, and County of Somerset, for an invention for—"Improvements in the form of rails for use in railways and tramways." *Provisional protection only.*

NEWALL. 13th May 1857.

1350. ROBERT STIRLING NEWALL, of Gateshead, in the County of Durham, for an invention for—"Improvements in the manufacture of wire strands for electrical purposes." *Letters Patent sealed.*

KAY. 13th May 1857.

1351. RICHARD DUGDALE KAY, of Accrington, in the County of Lancaster, Manufacturer, for an invention for—"Improvements in machinery or apparatus for printing woven or felted fabrics."—*A communication.* *Letters Patent sealed.*

AGER. 13th May 1857.

1352. NATHAN AGER, of Upper Ebury Street, Pimlico, in the County of Middlesex, Carpenter, for an invention for—"Improvements in connecting spindles of locks and latches with their knobs and handles." *Provisional protection only.*

PEAK. 13th May 1857.

1353. JOHN PEAK, of Wigan, in the County of Lancaster, Manufacturing Chemist, for an invention for—"Improvements in the manufacture of gas." *Provisional protection only.*

HENRY. 13th May 1857.

1354. MICHAEL HENRY, of 77, Fleet Street, in the City of London, Patent Agent for an invention for—"Improvements in winding weft and in the machinery employed therein, part of which is applicable to spinning-machinery."—*A communication from Muloteaux & C°.* *Letters Patent sealed.*

FIELDING. 13th May 1857.

1355. JOSEPH FIELDING, of Ashton-under-Lyne, in the County of Lancaster, Machinist, for an invention for—"An improvement in apparatus applicable to steam pipes or cylinders used for heating and drying, which said apparatus may be similarly employed wherever steam is used for such purposes."

Provisional protection only.

ALDERTON. 13th May 1857.

1356. WILLIAM ADAMS ALDERTON, of Brighton, in the County of Sussex, Cabinet Maker, for an invention for—"Improvements in spindles for door locks, latches and other similar purposes." *Provisional protection only.*

MORSE. 13th May 1857.

1357. GEORGE WOODWARD MORSE, of the State of Louisiana, of the United States of America, for an invention for—"An improved breech loading fire-arm."

Complete specification; Letters Patent sealed.

SAUERBREY. 14th May 1857.

1358. VALENTIN SAUERBREY, Gunsmith, of Basle (Switzerland), and of 45, Essex Street, Strand, London, for an invention for—"Improvements in the manufacture of fire-arms." *Provisional protection only.*

SISSONS. WHITE. 14th May 1857.

1359. WILLIAM SISSONS, and PETER WHITE, both of the Borough of Kingston-upon-Hull, Yorkshire, for an invention for—"Improvements in steam pile driving machinery." *Letters Patent sealed; no specification filed.*

ASHBY. 14th May 1857.

1360. WILLIAM ASHBY, of Croydon, in the County of Surrey, Millwright, for an invention for—"Improvements in water-wheels." *Letters Patent sealed.*

HYDE. HYDE. 14th May 1857.

1361. WILLIAM HYDE, and JOSHUA HYDE, Vice Makers, of Dudley, in the County of Worcester, for an invention for—"Improvements in the construction of vices." *Letters Patent sealed.*

HESSE. HESSE. 14th May 1857.

1362. DAVID HESSE, and MAX HESSE, both of Manchester, in the County of Lancaster, for an invention for—"Certain improvements in the manufacture of shirts, shirt fronts, and other articles of wearing apparel." *Letters Patent sealed.*

CRAWFORD. 14th May 1857.

1363. GEORGE CRAWFORD, of Edinburgh, in the County of Midlothian, North Britain, Music Seller, for an invention for—"Improvements in pianofortes."

Letters Patent sealed.

STEVENSON. 14th May 1857.

1364. JAMES STEVENSON, Junior, of Glasgow, in the County of Lanark, North Britain, Merchant, for an invention for—"Improvements in lighting apartments and passages." *Provisional protection only.*

HOLLINGWORTH. 14th May 1857.

1365. EDMUND HOLLINGWORTH, of Weston Underwood, in the County of Derby, Wheelwright, &c., for an invention for—"Improved machinery or apparatus for washing linen and other articles." *Provisional protection only.*

SHARROCKS. 14th May 1857.

1366. JAMES SHARROCKS, of Lower Healey, near Rochdale, in the county of Lancaster, Brick Maker, for an invention for—"Improvements in machinery or apparatus for pressing bricks, tiles and other plastic substances." *Letters Patent sealed.*

READING. 14th May 1857.

1367. DANIEL READING, of Claverdon, in the County of Warwick, for an invention for—"A new or improved spring for carriages or other vehicles."

Letters Patent sealed.

CARR. 14th May 1857.

1368. JOHN CARR, of Killyleagh, County Down, Ireland, Flax Spinner, for an invention for—"Improvements in machinery for hackling flax, hemp and other fibrous substances." *Letters Patent sealed.*

BARTHOLOMEW. HEPTINSTALL. 14th May 1857.

1369. CHARLES BARTHOLOMEW, of Rotherham, and JOHN HEPTINSTALL, of Masbro', in the County of York, for an invention for—"Improvements in machinery for rolling tyres and hoops for railway and other wheels, and also other articles made of iron and steel. *Letters Patent sealed.*

AIZLEWOOD. 15th May 1857.

1370. JOSEPH AIZLEWOOD, of Baths Foundry, Rotherham, in the County of York, Stove Grate Manufacturer, for an invention for—"Improvements in hat and umbrella stands." *Letters Patent sealed.*

VANDERBORGHT. 15th May 1857.

1371. MICHAEL JOSEPH VANDERBORGHT, Type Founder, 46, Rue Neuve, Brussels, in the Kingdom of Belgium, for an invention for—"A new system of machinery producing simultaneously the three fold effect of casting, breaking off, and rubbing (smoothing) of printing characters." *Provisional protection only.*

KING. 15th May 1857.

1372. WILLIAM HARTLEY KING, of Netherend, near Stourbridge, in the County of Worcester, Manufacturer, for an invention for—"Improvements in kilns and stoves." *Letters Patent sealed.*

WHITAKER. 15th May 1857.

1373. FREDERICK WHITAKER, of Islington, in the County of Middlesex, for an invention for—"Improvements in the construction of machinery for sewing and embroidering. *Letters Patent sealed.*

WALKER. 15th May 1857.

1374. ROBERT PORTER WALKER, of the City and State of New York, United States of America, for an invention for—"Improvements in machinery for hulling and scouring coffee and similar substances." *Letters Patent sealed.*

WHITESMITH. WHITESMITH. 15th May 1857.

1375. ISAAC WHITESMITH, of Glasgow, in the County of Lanark, North Britain, and WILLIAM WHITESMITH, of the same place, Machinists, for an invention for—"Improvements in weaving." *Letters Patent sealed.*

SCHMIDT. 15th May 1857.

1376. HENRY SCHMIDT, of 82, Rue St. Honoré, Paris, in the Empire of France, and of 34, Surrey Street, Strand, in the County of Middlesex, England, for an invention for—"A new apparatus for advertising in railway carriages, omnibuses, cabriolets, and other vehicles, and in theatres and public places." *Provisional protection only.*

CARTER. 15th May 1857.

1377. DAVID CARTER, of Honley, near Huddersfield, in the County of York, Machine Maker, for an invention for—"Improvements in machinery or apparatus for cleansing the waste of woollen or other fibrous manufactures, or for recovering the wool or other fibres from such waste substances or materials." *Letters Patent sealed.*

GRIPPER. 15th May 1857.

1378. EDWARD GRIPPER, of Winchester Wharf, Bankside, in the Borough of Southwark, Corn Factor, for an invention for—"Improved machinery or apparatus for washing, drying, and cleansing corn, seed, Egyptian beans or other pulse." *Letters Patent sealed.*

SANDS. 15th May 1857.

1379. SOPHIA SANDS, of the Town of Nottingham, Widow, Administratrix to the effects of the late Robert Sands, of Nottingham, her Son, for an invention for—"Improvements in the manufacture of fringes."—*A communication from the said Robert Sands.* *Letters Patent sealed.*

MARRIOTT. SUGDEN. 15th May 1857.

1380. WILLIAM MARRIOTT, and DAVID SUGDEN, of Huddersfield, in the County of York, Agricultural and Manufacturing Chemists, for an invention for—"Improvements in heating press plates for pressing woollen, worsted, cotton, silk, or other fabrics, paper, and other articles." *Provisional protection only.*

BROOMAN. 15th May 1857.

1381. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, E.C., Patent Agent, for an invention for—"An improvement in the construction of oil cans."—*A communication.* *Letters Patent sealed.*

BROOMAN. 15th May 1857.

1382. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, E.C., Patent Agent, for an invention for—"Improvements in machinery to be employed in the refining of sugar."—*A communication from Pierre André De Coster, of Paris.* *Letters Patent sealed.*

PARKER. 15th May 1857.

1383. FRANCIS PARKER, of Elm House, Homerton, Gentleman, for an invention for—"An improved tell tale for public vehicles." *Letters Patent sealed.*

BROWN. 15th May 1857.

1384. HENRY BROWN, of 187, Whitechapel Road, in the County of Middlesex, Commercial Agent, for an invention for—"An improved material resembling ivory." *Provisional protection only.*

RAMIÉ. 16th May 1857.

1385. CHARLES WILLIAM RAMIÉ, of Camberwell, in the County of Surrey, for an invention for—"A mode of attaching handles to table cutlery." *Provisional protection only.*

JONES. 16th May 1857.

1386. HENRY JONES, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"An improvement or improvements in engines for raising beer and other liquids." *Letters Patent sealed.*

TRAPPES. 16th May 1857.

1387. HENRY TRAPPES, of Manchester, in the County of Lancaster, Gentleman, for an invention for—"An improvement in the construction of a sliding drawer applicable to all steam-engines either fixed or locomotive, for the distribution of steam, aëriform or liquids used either as a motive-power or for any industrial or artistic purpose."—*A communication.* *Letters Patent sealed.*

CRESWELL. 16th May 1857.

1388. GEORGE HENRY CRESWELL, of Devonport, in the County of Devon, for an invention for—"Improvements in apparatus for supplying ink or other mixture for stamps used in stamping letters and other articles." *Letters Patent sealed.*

ELLIS. 16th May 1857.

1389. JOSEPH ELLIS, of the Town of Port Hope, in the Province of Canada, Civil Engineer, for an invention for—"Improvements in the manufacture of artificial stone." *Letters Patent sealed.*

COWPER. 16th May 1857.

1390. CHARLES COWPER, of No. 20, Southampton Buildings, Chancery Lane, in the County of Middlesex, Patent Agent, for an invention for—"Improvements in preparing solutions and extracts of the colouring matter of madder and other tinctorial substances for dyeing and printing."—*A communication from Ferdinand Mitscherlich, of Eilenburg, in Prussia.* *Letters Patent sealed.*

OGLE. 16th May 1857.

1391. NATHANIEL OGLE, of Jersey, Esquire, for an invention for—"An improved method of propelling and ventilating ships." *Provisional protection only.*

HILL. 16th May 1857.

1392. WILLIAM HILL, of the City of Carlisle, in the County of Cumberland, Breaksman, for an invention for—"Improvements in railway breaks." *Provisional protection only.*

BRADLEY. CRAVEN. 16th May 1857.

1393. RICHARD BRADLEY, and WILLIAM CRAVEN, of Westgate Common Foundry, Wakefield, in the County of York, Engineers, for an invention for—"Improvements in machinery or apparatus for making bricks and tiles." *Letters Patent sealed.*

BODMER. 18th May 1857.

1394. RUDOLPH BODMER, of 2, Thavies Inn, Holborn, in the City of London, for an invention for—"Improvements in locomotive steam-engines."—*A communication.* *Letters Patent sealed.*

AVERY. 18th May 1857.

1395. JOHN AVERY, of 32, Essex Street, Strand, in the County of Middlesex, Patent Agent, for an invention for—"Improvements in mills for grinding corn and other like substances.—*A communication from Joseph Perrigault, of France.* *Provisional protection only.*

PULVERMACHER. 18th May 1857.

1396. ISAC LOUIS PULVERMACHER, of Paris, in the Empire of France, Engineer, for an invention for—"Improvements in pipes or tubes for smoking." *Provisional protection only.*

NEWTON. 18th May 1857.

1397. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in the manufacture of boots, shoes, and other coverings for the feet."—*A communication.* *Letters Patent sealed.*

APPERLY. CLISSOLD. 18th May 1857.

1398. JAMES APPERLY, Cloth Manufacturer, and WILLIAM CLISSOLD, Engineer, both of Dudbridge, in the County of Gloucester, for an invention for—"An improvement in carding-engines and in condensers applicable thereto."—*Letters Patent sealed.*

CLARK. 18th May 1857.

1399. WILLIAM CLARK, of 53, Chancery Lane, in the County of Middlesex, Engineer and Patent Agent, for an invention for—"Improvements in the manufacture of silk and in the machinery used therein."—*A communication.* *Provisional protection only.*

VASSEROT. 19th May 1857.

1400. CHARLES FRÉDÉRIC VASSEROT, of 45, Essex Street, Strand, London, Patent Agent, for an invention for—"A typographical numbering apparatus."—*A communication from Auguste Trouillet, Esquire, of No. 10, Rue des Lavandieres Ste. Opportune, Paris, France.* *Complete specification; Letters Patent sealed.*

CARNABY. 19th May 1857.

1401. JOHN CARNABY, of Snowhill, in the City of London, Gas Apparatus Maker, for an invention for—"An improved registering index for gas and other meters." *Provisional protection only.*

ROYS. 19th May 1857.

1402. THOMAS WELCOME ROYS, of Southampton, Long Island, in the State of New York, in the United States of America, Master Mariner, for an invention for—"Improvements applicable to explosive shells." *Letters Patent sealed.*

REEVES. 19th May 1857.

1403. CHARLES REEVES, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"New or improved grinding and polishing machinery to be used in the manufacture of knives, matchets, swords and other similar articles." *Letters Patent sealed.*

COWPER. 19th May 1857.

1404. EDWARD ALFRED COWPER, of Great George Street, Westminster, in the County of Middlesex, for an invention for—"Improvements in furnaces for heating air and other elastic fluids." *Letters Patent sealed.*

VON SPARRE. 19th May 1857.

1405. JULIUS FRIEDRICH PHILIPP LUDWIG VON SPARRE, of Eisleben, in the Kingdom of Prussia, Engineer, for an invention for—"Improvements in separating substances of different specific gravities and in the machinery and apparatuses employed therein." *Letters Patent sealed.*

HOPE. 19th May 1857.

1406. JOHN HOPE, of Bishop's Auckland, in the County of Durham, Engineer, for an invention for—"An improved screw nut and ratchet brace for working the same." *Provisional protection only.*

WHITEHEAD. 19th May 1857.

1407. WILLIAM WHITEHEAD, of Huddersfield, in the County of York, Manufacturer, for an invention for—"Improvements in cards for jacquard mechanism." *Letters Patent sealed.*

OTT. UDLOFF. 19th May 1857.

1408. JACOB ULRICH OTT, of Zell, Canton of Zurich, Switzerland, Machinist, and FRIEDRICH AUGUST MORITZ UDLOFF, of 12, Somers Town, in the County of Middlesex, Printer, for an invention for—"Improvements in ruling paper and in the pens or instruments for the same." *Provisional protection only.*

BURTON. PYE. 19th May 1857.

1409. JOHN WATSON BURTON, of Ipswich, and GEORGE PYE, of the same place, and of 80, Lombard Street, in the City of London, for an invention for—"An improvement in pressing and crushing flax, hemp, and other fibrous substances." *Letters Patent sealed.*

ROWLAND. 19th May 1857.

1410. MARIA BOUNSALL ROWLAND, of Acton Green, in the County of Middlesex, Widow, for an invention for—"Improvements in soap and detergent preparations or compounds." *Letters Patent sealed.*

CORNIDES. 19th May 1857.

1411. LOUIS CORNIDES (at the Office for Patents), 4, Trafalgar Square, Charing Cross, in the County of Middlesex, for an invention for—"Improvements in the manufacture of gelatine and glue." *Provisional protection only*

HARRISON. 20th May 1857.

1412. CHARLES WEIGHTMAN HARRISON, of Woolwich, in the County of Kent, Civil Engineer, for an invention for—"Improvements in obtaining light by electricity." *Letters Patent sealed.*

HARDLEY. 20th May 1857.

1413. JOHN HARDLEY, of Shide, in the Isle of Wight, in the County of Hampshire, Gentleman, for an invention for—"An improved apparatus for bruising and grinding vegetable substances." *Letters Patent sealed.*

FOULKES. 20th May 1857.

1414. ABEL FOULKES, of the City of Chester, Glove Manufacturer, for an invention for—"Improvements in sewing or pointing gloves and in machinery for such purposes." *Letters Patent sealed.*

INGWERSEN. 20th May 1857.

1415. PAUL INGWERSEN, Doctor in Law, residing 452, New Oxford Street, in the County of Middlesex, for an invention for—"A certain remedy to prevent and dissolve the deposits in boilers and steam generators."—*A communication from Josef Scheibl, at Pesth, and Julius Offerman, at Brünn.* *Provisional protection only.*

USHER. 20th May 1857.

1416. ALFRED AUSTIN USHER, of Birmingham, in the County of Warwick, Ironmonger, for an invention for—"A new or improved moderator lamp." *Provisional protection only.*

KEOGH. KEOGH. 20th May 1857.

1417. HENRY KEOGH, Officer on the half pay of Her Majesty's Army, and of 37, Hugh Street, London, and FFRENCH AUGUSTUS KEOGH, of No. 9, Inner Temple, London, Solicitor, for—"An invention for lighting the public gas lamps in the cities and towns of Great Britain and Ireland by electricity, and for turning off and on the gas to same simultaneously." *Provisional protection only*

KNIGHT. 20th May 1857.

1418. THOMAS KNIGHT, of Upton, in the County of Chester, Wheelwright, for an invention for—"An improved cutter and cultivator of land." *Provisional protection only.*

SHARP. ELDER. 20th May 1857.

1419. GEORGE SHARP, of Jarrow, in the County of Durham, Millwright, and WILLIAM ELDER, of the same place, Engine Smith, for an invention for—"Improvements in steam hammers and machinery for forging iron and other substances." *Complete specification; Letters Patent sealed.*

LETHUILLIER. 20th May 1857.

1420. LAURENT LETHUILLIER, of 67, Rue Marbeuf, Paris, in the Empire of France, Engineer, for an invention for—"An improved machine for moulding and compressing bricks, tiles, and other articles made of soft materials." *Letters Patent sealed.*

ALDIS.
20th May 1857.

1421. ELIJAH ALDIS, of 31, North Street, Manchester, for an invention for—"Improvements in cramps for flooring and other purposes."
Letters Patent sealed; no specification filed.

HARRISSON.
20th May 1857.

1422. JOHN HARRISSON, of 25, New Church Road, South Hackney, in the County of Middlesex, for an invention for—"Improvements in railway signals."
Letters Patent sealed.

ABBOT.
THOMAS.
YOUNG.
HUNT.
20th May 1857.

1423. JAMES ABBOT the younger, of Bilston, in the County of Stafford, Millwright and Pattern Maker, RICHARD HANDLEY THOMAS of Kidsgrove, in the County of Stafford, Engineer, JOHN YOUNG, of Bilston, in the County of Stafford, Roll Turner, and JAMES EDWARD HUNT, of Highfields, near Bilston, in the same County, Agent, for an invention for—"Improved machinery for blooming iron."
Letters Patent sealed.

JAKENS.
20th May 1857.

1424. JOSEPH JAKENS, of Bury, in the County of Lancaster, Manufacturing Chemist, for an invention for—"Improvements applicable to printing and dyeing woven fabrics and fibrous materials." *Letters Patent sealed.*

TOZER.
20th May 1857.

1425. JAMES HONIBALL TOZER, of Liverpool, in the County of Lancaster, for an invention for—"Improvements applicable to travelling caps and other coverings for the head." *Provisional protection only.*

CLARK.
20th May 1857.

1426. WILLIAM STETTINIUS CLARK, of 133, High Holborn, in the County of Middlesex, for an invention for—"Improvements in machines for cleaning and polishing knives."—*A communication from James Wilcox, of the City of Philadelphia, United States.* *Provisional protection only.*

CLARK.
20th May 1857.

1427. WILLIAM CLARK, of 53, Chancery Lane, in the County of Middlesex, Engineer and Patent Agent, for an invention for—"Improvements in the preparation of the colouring matter called murexide."—*A communication.* *Letters Patent sealed.*

KEMP.
20th May 1857.

1428. EDWARD CURTIS KEMP, of Avon Place, Pershore Road, Birmingham, in the County of Warwick, Agent, for an invention for—"Improvements in chandelier or other pendent gas lights and in the fittings for the same." *Letters Patent sealed.*

KEMP.
20th May 1857.

1429. EDWARD CURTIS KEMP, of Avon Place, Pershore Road, Birmingham, in the County of Warwick, Agent, for an invention for—"Improvements in unions for gas pipes and other pipes or tubes."—*A communication.* *Provisional protection only.*

HOPKINS.
PEARCE.
21st May 1857.

1430. JAMES HOPKINS, of St. George's in the East, Schoolmaster, and GEORGE PEARCE, of Mile End, both in the County of Middlesex, Scale Beam Maker, for an invention for—"Improvements in trucks." *Provisional protection only.*

FONTAINEMOREAU.
21st May 1857.

1431. PETER ARMAND LE COMTE DE FONTAINEMOREAU, of London, Paris, and Brussels, Patent Solicitor, for an invention for—"Certain improvements in the processes for detaching or separating calcareous rocks."—*A communication.*
Provisional protection only.

OWEN.
21st May 1857.

1432. WILLIAM OWEN, of Ardwick, near Manchester, in the County of Lancaster, Stretcher and Finisher, for an invention for—"Improvements in machinery or apparatus for stretching woven fabrics." *Letters Patent sealed.*

BLACKLIDGE.
READ.
21st May 1857.

1433. WILLIAM BLACKLIDGE, junior, of Hoghton, in the County of Lancaster, Accountant, and GEORGE READ, of Bolton-le-Moors, in the said County, Millwright, for an invention for—"Certain improvements in the construction of churns, which said improvements are also applicable to other agitating or stirring apparatus."
Provisional protection only.

TODD.
21st May 1857.

1434. WILLIAM TODD, of Heywood, in the County of Lancaster, Cotton Spinner, for an invention for—"Certain improvements in the treatment of yarns or threads and in the apparatus for performing the same." *Letters Patent sealed.*

FOSTER.
21st May 1857.

1435. WILLIAM FOSTER, of Black Dike Mills, Bradford, in the County of York, Spinner and Manufacturer, for an invention for—"Improvements in the making of worsted and woollen yarn." *Provisional protection only.*

BEECH.
21st May 1857.

1436. WILLIAM BEECH, of Burslem, in the County of Stafford, Manufacturer, for an invention for—"Improvements in generating and applying motive-power."
Provisional protection only.

NEWTON.
21st May 1857.

1437. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"An improved method of sewing or stitching fabrics together."—*A communication.*

Provisional protection only.

HACKWORTH.
21st May 1857.

1438. JOHN WESLEY HACKWORTH, of Darlington, in the County of Durham, Engineer, for an invention for—"Improvements in machinery or apparatus for forcing, lifting and exhausting aëriform bodies and liquids, applicable to blast furnaces." *Letters Patent sealed.*

TAYLOR.
22nd May 1857.

1439, JOHN GEORGE TAYLOR, in the County of Glasgow, North Britain, Merchant, for an invention for—"Improvements in writing materials."

Provisional protection only.

DRUKKER.
22nd May 1857.

1440. MEYER DRUKKER, of No. 47, London Wall, Swiss Clock Manufacturer, for an invention for—"Improvements in apparatus for indicating the passage of time." *Letters Patent sealed.*

MURATORI.
22nd May 1857.

1441. CHRISTOPHE MURATORI, of No. 9, Rue Lafitte, in the City of Paris, at present residing at the Hotel De l'Europe, in the County of Middlesex, Doctor of Medicine, for an invention for—"Obtaining a new sort of white by silicate of magnesia and oxyde of zinc, or by silicate of magnesia and carbonate of lead, in the first case a composition of zinc and in the second a composition of lead."

Provisional protection only.

SAMUELSON.
22nd May 1857.

1442. BERNARD SAMUELSON, of Brafford's House, near Brough, in the County of York, Iron Master, for an invention for—"Improvements in safety apparatus for giving artificial light." *Provisional protection only.*

HENSMAN.
22nd May 1857.

1443. WILLIAM HENSMAN, of Linslade, in the County of Buckinghamshire, Agricultural Implement Manufacturer, for an invention for—"Improvements in drills for sowing seeds and depositing manure." *Provisional protection only.*

WHITAKER.
LAW.
FLETCHER.
22nd May 1857.

1444. EDMUND WHITAKER, of Rochdale, in the County of Lancaster, Engineer, and ALFRED LAW, of Littleborough, in the same County, Woollen Manufacturer, and JAMES FLETCHER, of Little Clegg, near Littleborough aforesaid, Flannel Manufacturer, for an invention for—"Improvements in steam-engines."

Provisional protection only.

PARSONS.
22nd May 1857.

1445. PERCEVAL MOSES PARSONS, of Duke Street, Adelphi, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in making moulds for casting railway chairs and other articles in metal, and in apparatus for that purpose." *Provisional protection only.*

WRIGHT.
WRIGHT.
22nd May 1857.

1446. JOHN TURNER WRIGHT, of Birmingham, in the County of Warwick, Manufacturer, and EDWIN PAYTON WRIGHT, of Birmingham aforesaid, Manufacturer, for an invention for—"A new or improved manufacture of cloths or coverings for railway trucks and other vehicles, ricks and other such like purposes."

Letters Patent sealed; no specification filed.

WALTON.
PINSON.
22nd May 1857.

1447. FREDERICK WALTON, of Wolverhampton, in the County of Stafford, Manufacturer, and JOHN PINSON, of Wolverhampton aforesaid, Machinist, for an invention for—"New or improved machinery for stamping or raising metals."

Letters Patent sealed.

HINE.
ONION.
22nd May 1857.

1448. BENJAMIN HORNBUCKLE HINE, of the Town of Nottingham, Manufacturer, and WILLIAM ONION, of the same place, Mechanic, for an invention for—"Improvements in knitting-machinery for the manufacture of ribbed fabrics."

Letters Patent sealed.

ENGLEDUE.
CULLIS.
22nd May 1857.

1449. JOHN RALPH ENGLEDUE, Gentleman, and WILLIAM CULLIS, Joiner, both of Southampton, in the County of Hants, for an invention for—"Improvements in ventilators for ships' cabins, apartments, and places." *Provisional protection only.*

FOX.
22nd May 1857.

1450. SAMUEL FOX, of Deepcar Works, Sheffield, for an invention for—"An improvement in the manufacture of flat steel wire used for the manufacture of the ribs and stretchers of umbrellas and parasols." *Letters Patent sealed.*

EFFERTZ.
22nd May 1857.

1451. PETER EFFERTZ, of 57, Nelson Square, Blackfriars Road, in the County of Surrey, for an invention for—"Improvements in machinery for making bricks."

Provisional protection only.

DeSchuttenbach. 22nd May 1857.

1452. Anton de Schuttenbach, of St. Petersburg, for an invention for—"Improvements in preparing fatty matters for the manufacture of candles and other purposes." *Letters Patent sealed.*

Carron. 23rd May 1857.

1453. William Carron, of Birmingham, in the County of Warwick, Machinist, for an invention for—"A new or improved nail, spike, or bolt, and machinery for manufacturing the same." *Letters Patent sealed.*

Duplais. 23rd May 1857.

1454. Noel Joseph Hyppolite Duplais, of 39, Rue de l'Echiquier, Paris, in the Empire of France, and of 4, South Street, Finsbury, London, for an invention for—"Certain improvements in the manufacture of felt hats and bonnets." *Provisional protection only.*

Coulon. 23rd May 1857.

1455. Pascal Florentin Coulon, of 39, Rue de l'Echiquier, Paris, in the Empire of France, and of 4, South Street, Finsbury, London, Gentleman, for an invention for—"Certain improvements in velveting paper and textile fabrics." *Provisional protection only.*

Travis. Casartelli. 23rd May 1857.

1456. Edwin Travis, of Oldham, in the County of Lancaster, and Joseph Louis Casartelli, of the City of Manchester, in the said County, for an invention for—"An improved apparatus for regulating the supply and discharge of steam, air, water and other fluids." *Letters Patent sealed; and Specification filed by order.*

Rankin. 23rd May 1857.

1457. John Rankin, of the City of Manchester, in the County of Lancaster, Tin Plate Worker, for an invention for—"Improvements in ventilators." *Provisional protection only.*

Roberts. 23rd May 1857.

1458. Thomas Humphrey Roberts, of Plymouth, in the County of Devon, for an invention for—"Machinery or apparatus for cleaning the inside of casks and puncheons." *Letters Patent sealed.*

Silver. 23rd May 1857.

1459. Thomas Silver, of Philadelphia, in the State of Pennsylvania, United States, Gentleman, for an invention for—"An improved steam-engine governor." *Letters Patent sealed.*

De la Barre. 23rd May 1857.

1460. Gautier Olivier de la Barre, of Great Titchfield Street, Cavendish Square, in the County of Middlesex, for an invention for—"Improvements in obtaining and applying motive-power."—*A communication.* *Letters Patent sealed.*

Phillips. 23rd May 1857.

1461. John Phillips, of Clipston Street, Portland Road, in the County of Middlesex, Engineer, for an invention for—"Improved apparatus for supporting and propelling the human body in water." *Letters Patent sealed.*

Bullock. 25th May 1857.

1462. Thomas Bullock, of No. 4, Skinner Place, Holloway, in the Parish of St. Mary, Islington, in the County of Middlesex, for an invention for—"The construction of waterclosets upon the principle of self action and self cleansing, called the self cleansing watercloset." *Provisional protection only.*

Rodd. 25th May 1857.

1463. Walter James Handscombe Rodd, of 3, Earl's Court, in the Parish of St. Ann's, Westminster, for an invention for—"A method of sailing or propelling a vessel or vessels out of or on the surface of the water." *Provisional protection only.*

Robertson. 25th May 1857.

1464. William Robertson, of Glasgow, in the County of Lanark, North Britain, Engineer, for an invention for—"Improvements in pistons and in apparatus connected therewith." *Letters Patent sealed.*

Sheard. Underwood. 25th May 1857.

1465. Schofield Crowther Sheard, and George Underwood, Millwrights, Engineers and Founders, of the Yorkshire Works, Smethwick (near Birmingham) in the County of Stafford, for an invention for—"Certain improvements in supplying boilers with water, generating steam, and consuming smoke, and which said improvements are applicable to marine, locomotive, stationary and other boilers." *Provisional protection only.*

Newton. 25th May 1857.

1466. William Edward Newton, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improved counting apparatus applicable for counting envelopes, cards, printed papers, or other articles that require to be put up in packets or parcels containing fixed numbers."—*A communication.* *Provisional protection only.*

Ford. 25th May 1857.

1467. Henry William Ford, of the City of Gloucester, Civil Engineer, for an invention for—"Improvements in apparatus for facilitating the draft and locomotion of carriages." *Provisional protection only*

COUTANT. 25th May 1857.

1468. ALPHONSE COUTANT, of Paris, in the Empire of France, Iron Master, for an invention for—"Improvements in forging and rolling iron wheels for railways." *Provisional protection only.*

SZERELMEY. 25th May 1857.

1469. NICHOLAS CHARLES SZERELMEY, of 5, Bermuda Place, Bath Road, Peckham, in the County of Surrey, Esquire, for an invention for—"Improvements in preparing combinations of materials for coating wooden and iron ships or vessels." *Provisional protection only.*

CROSSLEY. 25th May 1857.

1470. JOHN CROSSLEY, of St. Helen's, Lancashire, Glass Manufacturer, for an invention for—"Improvements in machinery for grinding and smoothing glass, marble and other substances." *Letters Patent sealed.*

FOX. 25th May 1857.

1471. WILLIAM FOX, of 28, Rue Constantine, Boulogne-sur-mer, France, for an invention for—"Improvements in the manufacture of steel pens." *Provisional protection only.*

TYLER. 25th May 1857.

1472. HENRY WHATLEY TYLER, of 12, Norfolk Crescent, Hyde Park, in the County of Middlesex, Captain Royal Engineers, for an invention for—"Improvements in the permanent way of railways." *Letters Patent sealed.*

COGAN. 25th May 1857.

1473. HENRY COGAN, of Trent, in the County of Somerset, Farmer, for an invention for—"An improved adjustable connection or joint particularly applicable to agricultural implements." *Provisional protection only.*

BROOMAN. 25th May 1857.

1474. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, E.C., for an invention for—"Improvements in pumps."—*A communication.* *Provisional protection only.*

MILLE. 25th May 1857.

1475. MARIN JOSEPH ALPHONSE MILLE, of Paris, in the Empire of France, Miner, for an invention for—"Improvements in producing gas." *Provisional protection only.*

EARNSHAW. 25th May 1857.

1476. JOHN EARNSHAW, junior, of Ossett, near Wakefield, in the County of York, Mechanic, for an invention for—"Improvements in the toothed coverings of rag machine cylinders and in the machinery or apparatus for preparing the same." *Letters Patent sealed.*

AUBERT. 25th May 1857.

1477. LOUIS DÉSIRÉ AUBERT, of Paris, in the Empire of France, Mechanician, for an invention for—"Improvements in fastenings for securing rails in the chairs." *Letters Patent sealed.*

UNDERHILL. 25th May 1857.

1478. WILLIAM SCOTT UNDERHILL, of Newport, in the County of Salop, Manufacturer, for an invention for—"Certain improvements in wringing-machines." *Letters Patent sealed.*

NEWTON. 25th May 1857.

1479. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"An improved mode of relieving the slide valves of steam-engines from unnecessary pressure."—*A communication.* *Letters Patent sealed.*

HENDRIE. 25th May 1857.

1480. ROBERT JAMES HENDRIE, junior, of Blossom Street, Norton Folgate, in the City of London, Silk Dyer, for an invention for—"An improvement in steam-boiler and other furnaces." *Letters Patent sealed.*

COOK. 27th May 1857.

1481. JAMES EDGAR COOK, of Greenock, in the County of Renfrew, North Britain, Booking Clerk, for an invention for—"An improved composition for the prevention of the decay and fouling of ships' bottoms and other exposed surfaces." *Letters Patent sealed.*

HART. 27th May 1857.

1482. WILLIAM HART, of Brigg, in the County of Lincoln, Lamp Manufacturer, for an invention for—"Improvements in signal lamps." *Letters Patent sealed.*

DAVIES. 27th May 1857.

1483. CHARLES DAVID DAVIES, of Holloway, in the County of Middlesex, Machinist, for an invention for—"Improvements in the application of coir or cocoa nut tree fibre as a substitute for hair in the manufacture of cloths used in seed crushing." *Provisional protection only.*

CLARK. 27th May 1857.

1484. WILLIAM STETTINIUS CLARK, of the American Patent Office, 133, High Holborn, in the County of Middlesex, for an invention for—"Improvements in machines for producing artificial ices from cream and other liquids."—*A communication from George W. Robinson and Charles W. Lord, of Baltimore, United States of America.* *Provisional protection only.*

CLARK.
27th May 1857.

1485. WILLIAM STETTINIUS CLARK, of the American Patent Office, 133, High Holborn, in the County of Middlesex, for an invention for—"Improvements in printing-presses."—*A communication.* *Provisional protection only.*

CLARK.
27th May 1857.

1486. WILLIAM STETTINIUS CLARK, of the American Patent Agency, 133, High Holborn, in the County of Middlesex, for an invention for—"Improvements in copying presses."—*A communication from W^m N. Smith, and Peter Hannay, of the City of Washington, United States of America.* *Provisional protection only.*

CLARK.
MOORE.
27th May 1857.

1487. WILLIAM STETTINIUS CLARK, and BENJAMIN MOORE, of the American Patent Agency, 133, High Holborn, in the County of Middlesex, for an invention for —"Improvements in churns for producing butter."—*A communication.* *Provisional protection only.*

SUTCLIFFE.
27th May 1857.

1488. JAMES SUTCLIFFE, of the City of Manchester, in the County of Lancaster, Machinist, for an invention for—"Improvements in water gauges." *Provisional protection only.*

PARKINSON.
STANDISH.
27th May 1857.

1489. ROBERT PARKINSON, of Blackburn, in the County of Lancaster, Cabinet Maker, and JOHN STANDISH, of the same place, Machinist, for an invention for—"Improvements in machinery or apparatus used in the preparation of cotton, wool, flax or other fibrous materials to be spun." *Letters Patent sealed.*

HOLLAND.
27th May 1857.

1490. WILLIAM HOLLAND, of Birmingham, in the County of Warwick, Tool Maker, for an invention for—"Improvements in umbrellas and parasols." *Letters Patent sealed.*

ELLIS.
27th May 1857.

1491. WILLIAM IRLAM ELLIS, of the Vulcan Foundry, near Warrington, in the County of Lancaster, Engineer, for an invention for—"Certain improvements in steam-engines." *Letters Patent sealed.*

CROMPTON.
27th May 1857.

1492. HENRY CROMPTON, of Farnworth, in the County of Lancaster, Finisher, for an invention for—"Certain improvements in machinery or apparatus for stretching woven fabrics." *Letters Patent sealed.*

LOW.
PRESS.
27th May 1857.

1493. ROBERT LOW, Engineer, of Union Street, Woolwich, in the County of Kent, and WILLIAM PRESS, of Stepney Causeway, in the County of Middlesex, for an invention for—"A certain new improvement or new improvements in the construction of vices." *Letters Patent sealed.*

SAVORY.
27th May 1857.

1494. JAMES SAVORY, of Tewkesbury, in the County of Gloucester, Engineer and Machinist, for an invention for—"A machine for separating seeds, whitecoats and dirt from wheat and seeds, awns and dirt from barley, and for cleaning and polishing wheat, barley and other grain fit for market." *Letters Patent sealed.*

WELCH.
27th May 1857.

1495. EDWARD WELCH, Architect, of Penge, in the County of Surrey, for an invention for—"Improvements in fireplaces and flues and apparatus connected therewith." *Letters Patent sealed.*

SAWNEY.
27th May 1857.

1496. WILLIAM SAWNEY, of Beverley, in the County of York, Machinist, for an invention for—"Improvements in winnowing or corn-dressing machines." *Provisional protection only.*

CODET-NÉGRIER.
27th May 1857.

1497. JEAN LÉONARD CODET-NÉGRIER, of Paris, in the Empire of France, Merchant, for an invention for—"Improvements in the manufacture of boots, shoes, harness and other articles." *Letters Patent sealed.*

BACQUEVILLE-PIE-
[TERS.
27th May 1857.

1498. VIRGINIE BACQUEVILLE-PIETERS, of Paris, in the Empire of France, for an invention for—"Improvements in outside blinds or shades for windows, doors and other places." *Letters Patent sealed.*

CRESSWELL.
27th May 1857.

1499. RANDAL CRESSWELL, of Conduit Street, Regent Street, London, Merchant, for an invention for—"A new article to be called Typha velvet, suitable for carpets, furniture, hangings, wearing-apparel, and other useful purposes."—*Letters Patent sealed.*

CRESSWELL.
27th May 1857.

1500. RANDAL CRESSWELL, of Conduit Street, Regent Street, London, Merchant, for an invention for—"Improvements in grease or lubricating boxes for axles and other rotary parts of machinery." *Provisional protection only.*

WILLIAMSON.
WILLIAMSON.
WRIGHT.
WADSWORTH.
27th May 1857.

1501. JOHN WILLIAMSON, and FRANCIS WILLIAMSON, both of Keighley, in the County of York, Worsted Manufacturers, JOHN WRIGHT, of Griffe Mill, in the Township of Haworth, in the Parish of Bradford, in the said County, Factory Manager, and JOSEPH WADSWORTH, of Oldfield, in the Parish of Keighley aforesaid, in the County aforesaid, Overlooker, for an invention for—"Improvements in looms." *Provisional protection only.*

BROOMAN.
27th May 1857.

1502. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, E.C., Patent Agent, for an invention for—"Improvements in distilling, and in apparatuses employed therein."—*A communication.* *Letters Patent sealed.*

JOSSA.
27th May 1857.

1503. FERDINAND JOSSA, of St. Helen's Colliery, near Bishop's Auckland, Durham, for an invention for—"Improvements in hammers worked by atmospheric pressure." *Provisional protection only.*

DANNE.
27th May 1857.

1504. LOUIS JOSEPH ALMIDOR DANNE, of Caen, a Town of France, Gentleman, for an invention for—"Manufacturing gutta-percha glue and applying the said glue to various new purposes." *Provisional protection only.*

PETROVITCH.
27th May 1857.

1505. MILIVOÏ PETROVITCH, Lieutenant-Colonel of Artillery, of Belgrade, in the Principality of Servia, for an invention for—"The improvement of projectiles used with fire-arms." *Letters Patent sealed.*

GRAHAME.
27th May 1857.

1506. THOMAS GRAHAME, of Upper Seymour Street, Portman Square, in the County of Middlesex, for an invention for—"Improvements in inland navigation." *Letters Patent sealed.*

JOPLING.
27th May 1857.

1507. THOMAS TAYLORSON JOPLING, of Dunning Street Foundry, Sunderland, for an invention for—"Improvements in water gauges of steam-boilers." *Letters Patent sealed.*

GRIFFITHS.
27th May 1857.

1508. EDWARD PAIGE GRIFFITHS, of High Street, Camberwell, in the County of Surrey, for an invention for—"Improvements in apparatus for beating the whites of eggs and other fluids and matters." *Letters Patent sealed.*

HODGES.
27th May 1857.

1509. RICHARD EDWARD HODGES, of Southampton Row, Bloomsbury, in the County of Middlesex, for an invention for—"Improvement in gauges and scales." *Letters Patent sealed.*

HALE.
27th May 1857.

1510. WILLIAM HALE, of Swan Walk, Chlesea, in the County of Middlesex, for an invention for—"Improvements in rolling iron and steel." *Letters Patent sealed.*

NEWTON.
27th May 1857.

1511. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"An improved method of applying photography to the use of engravers."—*A communication.* *Letters Patent sealed.*

NEWTON.
27th May 1857.

1512. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"Certain improved apparatus to be used in the manufacture of iron."—*A communication.* *Letters Patent sealed.*

HART.
27th May 1857.

1513. THOMAS HART, of Watt's Terrace, Old Kent Road, in the County of Surrey, Agent, for an invention for—"Improvements in the manufacture of lamp glasses applicable to railway carriage and other lamps." *Letters Patent sealed.*

COX.
28th May 1857.

1514. NATHANIEL COX, of Liverpool, in the County of Lancaster, Iron Merchant, for an invention for—"Improvements in railways."—*A communication.* *Letters Patent sealed.*

SIMPSON.
28th May 1857.

1515. ALEXANDER SIMPSON, of the Office for Patents, 77, Chancery Lane, in the County of Middlesex, for an invention for—"A new or improved slop and toilet pail."—*Partly a communication.* *Letters Patent sealed.*

WILBER.
29th May 1857.

1516. WILLIAM WILBER, formerly of New Orleans, now of New York, United States of America, for an invention for—"Hot air apparatus for hulling and extracting oils from oleaginous seeds." *Letters Patent sealed.*

WILLIS.
CHELL.
29th May 1857.

1517. THOMAS WILLIS, and GEORGE CHELL, both of Longsight, near the City of Manchester, Machine Makers, for an invention for—"Improvements in machinery for spinning, doubling and winding yarn and thread." *Letters Patent sealed.*

FLEET. 29th May 1857.

1518. CHARLES FLEET, of Brighton in the County of Sussex, for an invention for —"An improvement or improvements in the manufacture of printing ink."—*A communication from George Matthews, of Montreal, in Canada."* *Letters Patent sealed.*

SALLES. 29th May 1857.

1519. JEAN SALLES, of Paris, in the Empire of France, Gunsmith, for an invention for—"An improved apparatus for printing and stamping."—*Provisional protection only.*

MERRYLEES. 29th May 1857.

1520. JAMES MERRYLEES, of Paisley, in the County of Renfrew, North Britain, Manufacturer, for an invention for—"Improvements in the manufacture or production of ornamental fabrics." *Letters Patent sealed.*

MERRYLEES. 29th May 1857.

1521. JAMES MERRYLEES, of Paisley, in the County of Renfrew, North Britain, Manufacturer, for an invention for—"Improvements in the manufacture or production of carpets and other ornamental fabrics." *Letters Patent sealed.*

FONTAINEMOREAU. 29th May 1857.

1522. PETER ARMAND LE COMTE DE FONTAINEMOREAU, of London, Paris, and Brussels, Patent Solicitor, for an invention for—"Improvements in the construction of smoke consuming furnaces applicable to boilers."—*A communication.* *Letters Patent sealed.*

HEINEMANN. HEINEMANN. 30th May 1857.

1523. LOUIS HEINEMANN, and ARNOLD HEINEMANN, of the City of Manchester, in the County of Lancaster, for an invention for—"Improvements in those parts of printing-machines called "doctors." *Provisional protection only.*

CLARK. 30th May 1857.

1524. WILLIAM STETTINIUS CLARK, of the American Patent Agency, No. 133, High Holborn, in the County of Middlesex, for an invention for—"Improvements in machinery for the manufacture of an instrument for sharpening watch cleaning sticks used by watch makers, said instrument being also applicable to the sharpening of small wooden cylinders for other purposes, such as lead pencils, &c."—*A communication.* *Provisional protection only.*

CHAPUIS. 30th May 1857.

1525. PIERRE BENOIT CHAPUIS, of 3, Place des Repentirs, Guilliotiere, Lyons, in the Empire of France, Engineer, for an invention for—"Improvements in machinery for manufacturing ribbons, trimmings, fringes, and healds." *Provisional protection only.*

ALEXANDRE. 30th May 1857.

1526. EDOUARD ALEXANDRE, of Paris (Empire of France), and of 45, Essex Street, Strand, London, for an invention for—"Improvements in the manufacture of organs and other similar musical instruments." *Letters Patent sealed.*

CLARK. OLDFIELD. SALMON. 30th May 1857.

1527. MOSES CLARK, Engineer, of St. Mary Cray, HENRY OLDFIELD, Millwright, of Foot's Cray, and WILLIAM SALMON, Paper Maker, of Foot's Cray, all in the County of Kent, for an invention for—"Improvements in machinery or apparatus used in the manufacture of paper." *Letters Patent sealed.*

BLEIBTREU. 30th May 1857.

1528. DR. HERMANN BLEIBTREU, of the Alum Works, near Bonn on the Rhine, in the Kingdom of Prussia, for an invention for—"A new mode of preparing coke for metallurgical processes." *Letters Patent sealed.*

KENNY. 30th May 1857.

1529. LEWIS FENTON KENNY, of Stanley Street, Pimlico, London, for an invention for—"Improvements in window frames and sashes." *Provisional protection only.*

JAMES. GRIMSHAW. 30th May 1857.

1530. JOHN JAMES, and WILLIAM DAYKIN GRIMSHAW, both of Southampton, for an invention for—"An improved screw propeller for propelling ships or other navigable vessels through water." *Letters Patent sealed.*

RIDLEY. 30th May 1857.

1531. RALPH ERRINGTON RIDLEY, of Hexham, in the County of Northumberland, Gentleman, for an invention for—"Improvements in the permanent way of railways." *Provisional protection only.*

SALLES. 30th May 1857.

1532. JEAN SALLES, of Paris, in the Empire of France, Gun Smith, for an invention for—"An improved safety lock." *Provisional protection only.*

WARLICH. 30th May 1857.

1533. FERDINAND CHARLES WARLICH, of Hope Cottage, Kentish Town, in the County of Middlesex, for an invention for—"Improvements in generating steam." *Letters Patent sealed.*

PYE. OLDKNOW. 30th May 1857.

1534. GEORGE WATSON PYE, of Nottingham, Lace Manufacturer, and THOMAS OLDKNOW, of the same place, Machinist, for an invention for—"Improvements in machinery for manufacturing bobbin net or twist lace." *Letters Patent sealed; no specification filed.*

HORNSEY. 30th May 1857.

1535. GEORGE HORNSEY, of Southampton, Gas Fitter, for an invention for—"Improved apparatus for the engine rooms of steam vessels for communicating signals and orders from the captain on deck to the engineer or attendant below." *Letters Patent sealed.*

SHERRATT. 30th May 1857.

1536. THOMAS SHERRATT, of South Square, Gray's Inn, in the County of Middlesex, Engraver, for an invention for—"Improvements in time-keepers." *Provisional protection only.*

WILSON. 30th May 1857.

1537. THOMAS WILSON, of Bradmore House, Chiswick, in the County of Middlesex, School Master, for an invention for—"Improvements in floating bodies used in washing-machines." *Provisional protection only.*

LAMBERT-ALEXANDRE MALLET. 1st June 1857.

1538. LAZARE PROSPER LAMBERT-ALEXANDRE, and LOUIS PIERRE FELIX MALLET, both of Paris, in the French Empire, for an invention for—"Improvements in machinery for propelling vessels." *Letters Patent sealed.*

FELLOWS. 1st June 1857.

1539. FRANK PERKS FELLOWS, of Wolverhampton, in the County of Stafford, Brass Founder and Manufacturer, for an invention for—"Improvements in the manufacture of hinges, cocks and other jointed articles, or articles of which one part is required to be capable of turning upon or in another part of the same article." *Letters Patent sealed.*

WALENN. 1st June 1857.

1540. WILLIAM HENRY WALENN, of 68, Chancery Lane, in the County of Middlesex, Consulting Engineer, for an invention for—"Improvements in the electric deposition of metals and metallic alloys." *Letters Patent sealed.*

SALMON. 1st June 1857.

1541. JOHN AIKEN SALMON, of Glasgow, in the County of Lanark, Engineer, for an invention for—"Improvements in steam-engines and in apparatus for feeding boilers, and in furnaces." *Letters Patent sealed.*

BEQUEMIE. 1st June 1857.

1542. LOUIS LAURENT BEQUEMIE, of No. 30, Rue de la Douane, Paris, in the Empire of France, Gentleman, for an invention for—"Improvements in cocks." *A communication.* *Letters Patent sealed.*

TINGLE. 1st June 1857.

1543. GEORGE TINGLE, of Northwood, near Hanley, in the County of Stafford, Merchant, for an invention for—"An improvement or improvemements in machinery for the manufacture of articles from clay and other plastic substances." *Letters Patent sealed.*

POCHIN. WOOLLEY. 1st June 1857.

1544. HENRY DAVIS POCHIN, and JAMES WOOLLEY, both of the City of Manchester, Manufacturing Chemists, for an invention for—"Improvements in the manufacture of gum from amylaceous substances." *Provisional protection only.*

THOMPSON. 1st June 1857.

1545. HENRY THOMPSON, of No. 322, Regent Street, in the Parish of St. Marylebone, and County of Middlesex, Pianoforte Manufacturer, for an invention for—"Improvements in pianofortes." *Provisional protection only.*

SLATER. 1st June 1857.

1546. THOMAS SLATER, of Finkee Street, Hull, for an invention for—"An improvement in ploughs." *Provisional protection only.*

HOGA. 1st June 1857.

1547. STANISLAUS HOGA, of No. 1, Marylebone Street, in the County of Middlesex, for an invention for—"An improvement in coating the surfaces of the cells of galvanic batteries and also the surfaces of crucibles." *Letters Patent sealed; no specification filed.*

WRIGHT. 1st June 1857.

1548. RICHARD WRIGHT, of Brighton, in the County of Sussex, for an invention for—"Improvements in steam-boilers." *Provisional protection only.*

MULLER. 1st June 1857.

1549. HENRI LAURENT MULLER, junior, of Paris, in the Empire of France, Printer, for an invention for—"A new means of advertising." *Provisional protection only.*

SHAW. 2nd June 1857.

1550. CHARLES SHAW, of Birmingham, in the County of Warwick, Photographic Matt Maker, for an invention for—"A new or improved manufacture of matts for photographic and other pictures." *Provisional protection only.*

CLARK. MOORE. 2nd June 1857.

1551. WILLIAM STETTINIUS CLARK, and BENJAMIN MOORE, of the American Patent Agency, No. 133, High Holborn, in the County of Middlesex, for an invention for—"Improvements in animal traps." *Provisional protection only.*

FONTAINEMOREAU. 2nd June 1857.

1552. PETER ARMAND LE COMTE DE FONTAINEMOREAU, of London, Paris, and Brussels, Patent Solicitor, for an invention for—"Improved means of floating submerged bodies."—*A communication.* *Provisional protection only.*

BENTLEY. ALCOCK. 2nd June 1857.

1553. NEWTON BENTLEY, of Salford, in the County of Lancaster, Engineer, and JOHN ALCOCK, of Little Bolton, in the said County, Millwright, for an invention for—"Improvements in machinery or apparatus for forging and stamping metals, which is also applicable to pile-driving, crushing ores and seeds, beetling and fulling woven fabrics, and other similar purposes." *Letters Patent sealed.*

ALLEN. GIBSON. 2nd June 1857.

1554. JAMES ALLEN, of the City of Manchester, in the County of Lancaster, Brass Founder and Coppersmith, and JOHN GIBSON, of the same place, Brass Founder, for an invention for—"An improved union joint." *Provisional protection only.*

STEVENS. 2nd June 1857.

1555. JAMES STEVENS, of the Darlington Works, Southwark Bridge Road, for an invention for—"Improvements in water gas-meters." *Letters Patent sealed.*

CORRADO. 2nd June 1857.

1556. NICOLINO CORRADO, of 4, Cardington Street, Hampstead Road, in the County of Middlesex, for an invention for—"Improvements in purifying fatty matters." *Provisional protection only.*

ARROWSMITH. CAUNCE. 3rd June 1857.

1557. PETER ROTHWELL ARROWSMITH, of Bolton-le-Moors, in the County of Lancaster, Cotton Spinner, and ROBERT CAUNCE, of the same place, Manager, for an invention for—"Certain improvements in machinery for carding cotton and other fibrous materials." *Provisional protection only.*

CHAPPUIS. 3rd June 1857.

1558. PAUL EMILE CHAPPUIS, of Fleet Street, London, Patent Reflector Manufacturer, for an invention for—"Improvements in stereoscopes." *Provisional protection only.*

ROY. 3rd June 1857.

1559. EDMOND ROY, of No. 36, Rue de l'Echiquier, Paris, in the Empire of France, Civil Engineer, for an invention for—"Improvements in the construction of railway vehicles for the special purpose of allowing them to run freely on short curved lines." *Letters Patent sealed.*

ROBERTSON. 3rd June 1857.

1560. CHARLES ROBERTSON, of London, Master Mariner, for an invention for—"An apparatus for cleaning the bottoms of iron ships while afloat." *Provisional protection only.*

LEES. LEES. LEES. 3rd June 1857.

1561. SAMUEL LEES, JAMES LEES, and FREDERICK LEES, all of Rochdale, in the County of Lancaster, for an invention for—"Improvements in machinery for warping cotton, worsted and other fibrous substances." *Provisional protection only.*

JONES. 3rd June 1857.

1562. WILLIAM JONES, of Kelvey Cottage, Swansea, for an invention for—"Improvements in heating and compressing artificial fuel." *Letters Patent sealed.*

MORAND. 3rd June 1857.

1563. SAMUEL MORAND, of Manchester, in the County of Lancaster, Gentleman, for an invention for—"Improvements in apparatus used for stretching and drying fabrics." *Provisional protection only.*

REMINGTON. BALCOMBE. 3rd June 1857.

1564. GEORGE REMINGTON, of Hereford Square, Old Brompton, in the County of Middlesex, Engineer, and JOHN BARTON BALCOMBE, of Sutherland Terrace, Loughborough Park, Brixton, in the County of Surrey, Gentleman, for an invention for—"Improvements in locomotive engines applicable to common roads." *Provisional protection only.*

DEELEY. 3rd June 1857.

1565. GEORGE DEELEY, of West Bromwich, in the County of Stafford, Iron Founder, for an invention for—"Improved means for preventing the explosion of steam-boilers." *Letters Patent sealed; no specification filed.*

BROOMAN. 3rd June 1857.

1566. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, E.C., Patent Agent, for an invention for—"Improvements in gas-burners."—*A communication.* *Provisional protection only*

JOBSON. 3rd June 1857.

1567. JOHN JOBSON, of Bulwark Street, Dover, in the County of Kent, Engine Driver, for an invention for—"Improvements in oil cans or feeders." *Letters Patent sealed.*

BARR. 3rd June 1857.

1568. WILLIAM BARR, of 15, Panton Street, Haymarket, in the County of Middlesex, Tailor, for an invention for—"Improvements in actual measurement for delineating garments."—*Partly a communication.* *Provisional protection only.*

THERRIN. 4th June 1857.

1569. LAURENT PROSPER THERRIN, of No. 5, Grande Rue, Dieppe, Departement of Seine Inferieure, France, for an invention for—"Improvements in railway breaks applicable to railway carriages,—called railway lever breaks." *Provisional protection only.*

JENNINGS. 4th June 1857.

1570. HENRY CONSTANTINE JENNINGS, of No. 8, Great Tower Street, in the City of London, Practical Chemist, for an invention for—"Improvements in the manufacture of paper, papier mâché, and other similar substances." *Provisional protection only.*

MARTEL. 4th June 1857.

1571. CHERIE MARTEL, of Boulogne-sur-mer, in the Empire of France, Gun Maker, for an invention for—"An improvement in fire-arms." *Letters Patent sealed.*

BLUMBERG. 4th June 1857.

1572. VICTOR BLUMBERG, of Bloomfield Lodge, Notting Hill, in the County of Middlesex, Gentleman, for an invention for—"Improvements in the manufacture of billiard tables." *Letters Patent sealed.*

MILLER. 4th June 1857.

1573. WILLIAM MILLER, of 15, Buckingham Street, Strand, London, for an invention for—"Improvements in the manufacture of sugar and in the apparatus used therein." *Letters Patent sealed.*

HARDING. 4th June 1857.

1574. WILLIAM HARDING, of Forest Hill, in the County of Kent, Gun Maker, for an invention for—"Improvements in pistol holsters." *Provisional protection only.*

ROYS. 4th June 1857.

1575. THOMAS WELCOME ROYS, of Southampton, Long Island, in the State of New York, in the United States of America, Master Mariner, for an invention for—"Improvements applicable to fire-arms." *Provisional protection only.*

KING. 4th June 1857.

1576. JAMES KING, of Observatory Street, Oxford, Mercer, for an invention for—"Improvements in the manufacture of shirts." *Provisional protection only.*

BOOTE. BOOTE. 4th June 1857.

1577. THOMAS LATHAM BOOTE, and RICHARD BOOTE, both of Burslem, in the County of Stafford, Potters, for an invention for—"Improvements in the manufacture of ornamental pottery and articles made from clay and other like plastic materials." *Letters Patent sealed.*

COLLYER. 5th June 1857.

1578. ROBERT HANHAM COLLYER, M.D., of No. 3, Park Road, Regent's Park, London, for an invention for—"An improved mode of preparing the residue of beet root, mangel wurtzel, and other species of the genus beta left in sugar making and distillation, to be used as material in making paper, papier mâché, millboard and other similar manufactures." *Letters Patent sealed.*

ROBERTS. SHAW. SHAW. 5th June 1857.

1579. RICHARD ROBERTS, of Heaton Norris, in the County of Lancaster, Machine Maker, and WRIGHT SHAW, and SAMUEL SHAW, both of Gee Cross, in the County of Chester, Weavers, for an invention for—"Improvements in machinery for weaving and folding fabrics." *Letters Patent sealed.*

ROUSSILLE. 5th June 1857.

1580. EDOUARD ROUSSILLE, of Jurançon, near Pau, a Town of France, Manufacturer of Chemical Products, for an invention for—"Improvements in manufacturing stearic acid." *Provisional protection only.*

CLAIR. 5th June 1857.

1581. JOSEPH ETIENNE MARIE JEAN CLAIR, of Annonay, Town in the French Empire, Architect, for an invention for—"Certain improvements in propelling on water and in the air."—*A communication from Joseph Robatel, of Lyons.* *Provisional protection only.*

WHEELHOUSE. GREENWOOD. 5th June 1857.

1582. THOMAS WHEELHOUSE, of Salford, near Manchester, in the County of Lancaster, and JOHN GREENWOOD, of Pendleton, in the said County, for an invention for—"Improvements in ventilating vehicles or carriages in motion." *Provisional protection only.*

SCHMIDT. 5th June 1857.

1583. HENRY SCHMIDT, of 34, Surrey Street, Strand, in the County of Middlesex, for an invention for—"The new cork roller for lithographic printing."—*A communication.* *Provisional protection only.*

COLLIER. 5th June 1857.

1584. GEORGE COLLIER, of Halifax, in the County of York, for an invention for—"Improvements in preparing printed or parti-colored yarns for manufacture into fabrics." *Provisional protection only.*

JOSSA. 5th June 1857.

1585. FERDINAND JOSSA, of St. Helen's Colliery, near Bishop's Auckland, Durham, for an invention for—"Improvements in uniting iron and steel." *Provisional protection only.*

JORDAN. 5th June 1857.

1586. JOHN JORDAN, of Liverpool, in the County of Lancaster, Engineer and Iron Ship Builder, and Surveyor of Iron Ships for the Port of Liverpool, for an invention for—"Improvements in the construction of iron ships or vessels." *Provisional protection only.*

NEWTON, 5th June 1857.

1587. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in the manufacture of paper, papier mâché, cardboard, and other similar articles."—*A communication from M. Voelter, junior, of Heidenheim in the Kingdom of Würtemburg.* *Letters Patent sealed.*

MORRIS. 5th June 1857.

1588. JAMES MORRIS, of Clapham, in the County of Surrey, Gentleman, for an invention for—"Certain improvements in connecting the rails of railways and in supporting the same." *Letters Patent sealed.*

MUSPRATT. GERLAND. 5th June 1857.

1589. EDMUND KNOWLES MUSPRATT, of LIVERPOOL, and BALTHASAR GERLAND, Ph. D., of 46, Lloyd Street, Greenheys, Manchester, for an invention for—"Improvements in treating waste liquors produced in the manufacture of chlorine, and in separating nickel, cobalt, and copper from liquids containing them in combination with manganese and iron." *Letters Patent sealed.*

SHAW. 6th June 1857.

1590. THOMAS GEORGE SHAW, of Dartmouth Row, Blackheath, in the County of Kent, Merchant, for an invention for—"Improvements in bedsteads."—*A communication.* *Letters Patent sealed.*

WARD. WYNAUTS. 6th June 1857.

1591. FREDERICK OLDFIELD WARD, Private Gentleman, of Cork Street, Burlington Gardens, in the County of Middlesex, and FREDERICK WYNAUTS, Captain of Engineers, in the Belgian Service, of the Rue de la Paix, Ixelles-lez-Bruxelles, for an invention for—"Improvements in manufacturing manure and obtaining accessory products." *Provisional protection only.*

POWERS. 6th June 1857.

1592. HIRAM POWERS, a Citizen of the United States, now residing in Florence, Italy, Sculptor, for an invention for—"An improved machine for punching, stamping, or cutting metals and other substances." *Letters Patent sealed.*

DINGLINGER. 6th June 1857.

1593. RUDOLPH DINGLINGER, of Berlin, in the Kingdom of Prussia, Engineer, for an invention for—"Improvements in pumps, which improvements are also applicable to steam-engines." *Provisional protection only.*

HUDSON. 6th June 1857.

1594. EDWARD HIRST HUDSON, of Burley, in the Parish of Otley, in the County of York, Worsted Spinner and Stuff Manufacturer, for an invention for—"Improvements in means or apparatus to prevent driving-straps lapping on the shafting when they shift off their pullies." *Letters Patent sealed.*

NOÉ. 6th June 1857.

1595. HENRI JOSEPH NOÉ, of Paris, in the French Empire, Frame Maker, for an invention for—"Improvements in portable stereoscopes." *Provisional protection only.*

ROGERS. 6th June 1857.

1596. JOSEPH ROGERS, of Bartholomew Close, in the City of London, Gentleman, for an invention for—"Improvements in machinery for winding or folding drapery and other like goods." *Provisional protection only.*

EDWARDS. 6th June 1857.

1597. EDWARD EDWARDS, of Englefield Terrace, De Beauvoir Town, Kingsland, in the County of Middlesex, Agent, for an invention for—"An improved mode of fastening stair rods and other rods." *Letters Patent sealed.*

SHERMAN. 6th June 1857.

1598. AMORY FAIRBANKS SHERMAN, of the City of Roxbury, in the County of Norfolk, in the State of Massachusetts, in the United States of America, but now residing at Liverpool, in the County of Lancaster, Civil Engineer, for an invention for—"Improvements in machinery for breaking, hatchelling, roving, spinning, and tarring hemp, flax, manilla, or any fibrous material or materials." *Letters Patent sealed.*

DOPTER. 6th June 1857.

1599. ALFRED JEAN VINCENT DOPTER, of Paris, in the Empire of France, Printer, for an invention for—"Improvements in ornamenting cloth, wood, metal, leather, and other surfaces." *Letters Patent sealed.*

CLARKE. 6th June 1857.

1600. HENRY CLARKE, of Horncastle, in the County of Lincoln, Clerk, for an invention for—"Improvements in rotary engines." *Provisional protection only*

BETHUNE. 8th June 1857.

1601. DONALD BETHUNE, of Cambridge Terrace, Hyde Park, London, Esquire, for an invention for—" Improvements in apparatus for preventing or consuming smoke in furnaces and chimnies." *Letters Patent sealed.*

BROWN. 8th June 1857.

1602. JOHN BROWN, of Gold's Green, West Bromwich, in the County of Stafford, Mill and Forge Manager, for an invention for—" Certain improvements adapted to the prevention of steam-boiler explosions." *Letters Patent sealed.*

BROOKS. 8th June 1857.

1603. EDGAR BROOKS, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—" A new or improved manufacture of gun barrels and other articles of like manufacture." *Letters Patent sealed.*

BICKFORD. 9th June 1857.

1604. JOHN BICKFORD, of Crediton, in the County of Devon, for an invention for —" Improvements in machinery for cutting gutters for irrigating land, and for cutting other surface drains or gutters." *Letters Patent sealed.*

WRIGHT. 9th June 1857.

1605. WILLIAM WRIGHT, of Forth Street, Newcastle-on-Tyne, in the County of the same, Glass Manufacturer, for an invention for—" Improvements in apparatus for annealing glass in ovens." *Letters Patent sealed.*

WRIGHT. 9th June 1857.

1606. WILLIAM WRIGHT, of Forth Street, Newcastle-on-Tyne, in the County of the same, Glass Manufacturer, for an invention for—" Improvements in apparatus for feeding fires and furnaces with fuel." *Letters Patent sealed.*

ROBERTSON. 9th June 1857.

1607. JOHN ROBERTSON, of Valley Field, in the County of Midlothian, North Britain, Engineer, for an invention for—" Improvements in machinery or apparatus for treating or preparing and boiling rags and other materials."—*Letters Patent sealed.*

WHITESMITH. WHITESMITH. 9th June 1857.

1608. ISAAC WHITESMITH, of Glasgow in the County of Lanark, North Britain, and WILLIAM WHITESMITH, of the same place, Machinists, for an invention for— " Improvements in weaving." *Letters Patent sealed.*

TUCK. 9th June 1857.

1609. JOSEPH HENRY TUCK, of Pall Mall, in the County of Middlesex, Gentleman, for an invention for—" Improvements in the application of light to facilitate operations under water." *Provisional protection only.*

KURTZ. NORI. 9th June 1857.

1610. CLEMENT AUGUSTE KURTZ, and LOUIS ALCIDE NORI, of Paris, in the French Empire, Chemists, for an invention for—" Improvements in extracting the colouring matter from gum-lac and other similar substances, and in treating the residues thereof." *Provisional protection only.*

FONTAINEMOREAU. 9th June 1857.

1611. PETER ARMAND LE COMTE DE FONTAINEMOREAU, of 39, Rue de l'Echiquier, Paris, and 4, South Street, Finsbury, London, Patent Agent, for an invention for—" Improvements in the construction of axle bearings."—*A communication.* *Letters Patent sealed.*

GEDGE. 9th June 1857.

1612. JOHN GEDGE, of No. 4, Wellington Street South, Strand, in the County of Middlesex, Patent Agent, for an invention for—" Improvements in constructing gas retorts in the furnaces of steam-engines or other furnaces."—*A communication from Nicolas Delannoy, of Tournay, in the kingdom of Belgium.*
Complete specification; Letters Patent sealed.

BROOMAN. 9th June 1857.

1613. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, E.C., Patent Agent, for an invention for—" Improvements in furnaces."—*A communication from F. H. Morel.* *Letters Patent sealed.*

NEWTON. 9th June 1857.

1614. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—" An improved arrangement or construction of cut off gear for steam-engines."—*A communication.*
Provisional protection only.

NEWTON. 9th June 1857.

1615. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—" An improved life boat."—*A communication.* *Letters Patent sealed.*

NEWTON. 9th June 1857.

1616. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—" An improved construction of faucet or cock."—*A communication.* *Provisional protection only.*

HALE. 9th June 1857.

1617. THOMAS HALE, of the State of Massachusetts, of the United States of America, for an invention for—" A new and useful or improved apparatus for heating and ventilating a building."—*A communication from John Sawyer.*
Complete specification; Letters Patent sealed.

MUMBY. 9th June 1857.

1618. GEORGE MUMBY, of Cloudesley Square, Islington, London, Mechanical Draughtsman, for an invention for—"Improvements in machinery for sewing, embroidering, and other ornamental work." *Letters Patent sealed.*

BURDON. 9th June 1857.

1619. JOSEPH AUGUSTUS BURDON, of No. 39, Rue de l'Echiquier, Paris, and 4, South Street, Finsbury, London, Civil Engineer, for an invention for—"Certain improvements in apparatus for producing expansion in steam and other motive-power engines." *Provisional protection only.*

BAXTER. 9th June 1857.

1620. GEORGE BAXTER, of Northampton Square, in the County of Middlesex, Printer in Oil Colours, for an invention for—"Improvements in printing in colours." *Provisional protection only.*

DANIEL. 9th June 1857.

1621. THOMAS DANIEL, of Darley Mills, near Derby, in the County of Derby, in the employ of Walter Evans and Company, of Darley Mills aforesaid, for an invention for—"Improvements in drawing-frames." *Provisional protection only.*

KOEHLER. 10th June 1857.

1622. FREDERIC KOEHLER, of No. 3, Finsbury Place, in the City of London, for an invention for—"Improvements in gunpowder." *Provisional protection only.*

BROWN. 10th June 1857.

1623. JAMES BROWN, of Aldgate, in the City of London, Chemist, for an invention for—"An improvement in the manufacture of paper." *Letters Patent sealed.*

BAILEY. 10th June 1857.

1624. JOSEPH SHARP BAILEY, of Keighley, in the County of York, Wool Comber, for an invention for—"Improvements in machinery for combing wool and other fibrous materials." *Letters Patent sealed.*

JARRETT. 10th June 1857.

1625. GRIFFITH JARRETT, of the City of London, Engraver and Press Manufacturer, for an invention for—"Improvements in apparatus for printing or endorsing in colours on paper or other surfaces, being improvements upon the invention secured to him by Letters Patent dated the 29th day of July 1853." *Letters Patent sealed.*

MILLER. 10th June 1857.

1626. MAXWELL MILLER, of Glasgow, in the County of Lanark, North Britain, Brass Founder, for an invention for—"Improvements in cocks, taps, or valves." *Letters Patent sealed.*

GORSE. POLLOCK. 10th June 1857.

1627. WILLIAM GORSE, of Birmingham, in the County of Warwick, Manufacturer, and SAMUEL POLLOCK, of Birmingham aforesaid, Machinist, for an invention for—"New or improved machinery for the manufacture of bricks and other articles of like manufacture." *Provisional protection only.*

ROBERTS. 10th June 1857.

1628. THOMAS HUMPHREY ROBERTS, of Stonehouse, in the County of Devon, Brewer, for an invention for—"Improvements in the manufacture of casks." *Letters Patent sealed.*

SAMPSON. SAMPSON. LEDGER. 10th June 1857.

1629. GEORGE SAMPSON, and JOSEPH SAMPSON, both of Gordon Street, Bradford, in the County of York, Stuff Finishers, and ELIJAH LEDGER, of Lofthouse, near Wakefield, also in the County of York, Bookkeeper, for an invention for—"Improvements in means or apparatus for effecting the folding or rigging of woven fabrics." *Letters Patent sealed.*

DUNN. 10th June 1857.

1630. ARTHUR DUNN, of Dalston, in the County of Middlesex, Fancy Soap Manufacturer, for an invention for—"An improvement in preparing and packing tooth-powder." *Letters Patent sealed.*

PUDDEFOOT. 10th June 1847.

1631. MICHAEL PUDDEFOOT, of Queen's Terrace, Woolwich Road, Greenwich, in the County of Kent, Chip and Straw Manufacturer, for an invention for—"Improvements in mowing-machines." *Provisional protection only.*

LEMOINE. 10th June 1857.

1632. ETIENNE LEMOINE, of Paris, France, Gas Fitter, for an invention for—"Improvements in gas meters." *Letters Patent sealed.*

NEWTON. 10th June 1857.

1633. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"Improvements in reaping-machines."—*A communication.* *Letters Patent sealed.*

NEWTON. 10th June 1857.

1634. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"Improvements in the construction and mode of propelling and steering navigable vessels."—*A communication.* *Letters Patent sealed.*

NEWTON. 10th June 1857.

1635. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in printing machinery."—*A communication.* *Letters Patent sealed.*

REMFRY. 11th June 1857.

1636. GEORGE FARRELL REMFRY, of Riches Court, Lime Street, in the City of London, Merchant, for an invention for—"An improved apparatus for supporting, protecting, and propelling the human body in water." *Letters Patent sealed.*

FOLSON. 11th June 1857.

1637. ARTHUR FOLSON, of Boston, in the United States of America, Merchant, for an invention for—"Improvements in the construction of tunnels or ways under water." *Provisional protection only.*

DALY. 11th June 1857.

1638. DANIEL JOSEPH DALY, of Tuckey Street, Cork, in the County of Cork, Ireland, Brewer, for an invention for—"Improvements in venting casks and in preserving them from bursting by the action of the liquors contained therein." *Letters Patent sealed.*

ROBERTSON. 11th June 1857.

1639. JAMES ROBERTSON, of Glasgow, in the County of Lanark, North Britain, Engineer, for an invention for—"Improvements in lifting, lowering, transporting, and regulating the motion of heavy bodies." *Letters Patent sealed.*

SHAW. SHAW. 11th June 1857.

1640. JAMES SHAW, and HUGH SHAW, both of Waterhead Mill, near Oldham, in the County of Lancaster, Spinners, for an invention for—"Certain improvements in machinery or apparatus for preparing and spinning cotton and other fibrous substances." *Provisional protection only.*

CLARK. 11th June 1857.

1641. JOSIAH LATIMER CLARK, of 35, Adelaide Road, Haverstock Hill, in the County of Middlesex, for an invention for—"Improvements in apparatus for conveying letters or parcels between places by the pressure of air and vacuum." *Letters Patent sealed.*

PAULE. 11th June 1857.

1642. JOSEPH MICHEL PAULE, of Alston, Cumberland, Gentleman, for an invention for—"Improved means for ventilating coal and other mines." *Letters Patent sealed.*

WILKINS. 11th June 1857.

1643. WILLIAM WILKINS, of Leicester, in the County of Leicester, Overlooker, for an invention for—"Improvements in machinery for the manufacture of looped fabrics." *Letters Patent sealed.*

ELCE. HARTLEY. 12th June 1857.

1644. JOHN ELCE, of the City of Manchester, Machinist, SAMUEL HARTLEY, of the same place, Brass Moulder, for an invention for—"Improvements in machinery for preparing moulds for casting iron or other metals." *Provisional protection only.*

WHITWORTH. 12th June 1857.

1645. JOSEPH WHITWORTH, of the City of Manchester, in the County of Lancaster, for an invention for—"Improvements in ordnance, fire-arms and projectiles, and in machinery employed in their manufacture." *Letters Patent sealed.*

BUCHANAN. 12th June 1857.

1646. JAMES BUCHANAN, of Glasgow, in the County of Lanark, North Britain, Gentleman, for an invention for—"Improvements in the manufacture and finishing of heddles or healds for weaving, parts of which improvements are applicable to the preparing and weaving fibrous materials." *Letters Patent sealed.*

RUTTER. BANISTER. 12th June 1857.

1647. THOMAS RUTTER, of Birmingham, in the County of Warwick, Manufacturer, and JAMES BANISTER, of Birmingham aforesaid, Tube Maker, for an invention for—"Improvements in umbrellas and parasols." *Provisional protection only.*

DIEULAFAIT. 12th June 1857.

1648. JULES CLOVIS DIEULAFAIT, Merchant, of Paris, in the Empire of France, and of 45, Essex Street, Strand, London, for an invention for—"An improved method of manufacturing garments whereby one garment may be changed in form to that of several others." *Provisional protection only.*

DAVIES. 12th June 1857.

1649. GEORGE DAVIES, of No. 1, Serle Street, Lincoln's Inn, in the County of Middlesex, and No. 28, St. Enoch Square, in the City of Glasgow, Civil Engineer and Patent Agent, for an invention for—"Improved apparatus for weighing grain and other articles, to be called 'The electro-magnetic grain scale.'"—*A communication from Nathan M. Phillips, of the City of New York, United States of America.* *Letters Patent sealed.*

NOAKES. WOOD. 12th June 1857.

1650. BENJAMIN NOAKES, and FREDERIC JOHN WOOD, of Spa Road, in the County of Surrey, Metal Cask Manufacturers, for an invention for—"A method of and apparatus to be employed in the sealing of the joints in metallic casks and other similar vessels." *Letters Patent sealed.*

BRASIER. 12th June 1857.

1651. EDWARD BRASIER, of Stepney, in the County of Middlesex, Engineer, for an invention for—"Improvements in treating flax, hemp and other vegetable fibres, and in the machinery employed therein." *Letters Patent sealed*

D'Ambly. 12th June 1857.

1652. Charles D'Ambly, of Stuttgart, in the Kingdom of Wurtemberg, for an invention for—"Improvements in cutting and preparing horn."—*A communication.* *Letters Patent sealed.*

Carleman. 12th June 1857.

1653. Carl Gustaf Carleman, of 31, Jewin Crescent, in the City of London, for an invention for—"Improvements in submerged propellers for propelling vessels." *Provisional protection only.*

Macdonald. 12th June 1857.

1654. Malcolm Macdonald, of Glasgow, in the County of Lanark, North Britain, Manufacturer, for an invention for—"Improvements in washing, bleaching, cleansing and preparing textile fabrics and materials." *Letters Patent sealed; no specification filed.*

Barsanti. Matteucci. 12th June 1857.

1655. Eugène Barsanti, Professor of Physics and Mathematics, and Felix Matteucci, Gentleman, both of Florence, in the Grand Duchy of Tuscany, for an invention for—"Improved apparatus for obtaining motive-power from gases." *Letters Patent sealed.*

Brazil. 12th June 1857.

1656. Clarance Brazil, of Chorley, in the County of Lancaster, Manufacturer, for an invention for—"Improvements in looms for weaving." *Provisional protection only.*

Lister. 12th June 1857.

1657. George Lister, of Rivers, near Dursley, in the County of Gloucester, Machinist, Wire Card Maker and Tanner, for an invention for—"An improvement in carding-engines." *Letters Patent sealed.*

Turner. 12th June 1857.

1658. Thomas Turner, of Wolverhampton, in the County of Stafford, Ironmonger, for an invention for—"Improvements in apparatus to be employed as an alarm and detector in cases of burglary."—*Complete specification; Letters Patent sealed.*

Kite. 13th June 1857.

1659. James Kite, Engineer, of New Bridge Street, Vauxhall, for an invention for—"Improvements in apparatus for detection of flaws or escapes in gas pipes, joints, and taps." *Provisional protection* NOT *granted.*

Mushet. 13th June 1857.

1660. Robert Mushet, of Coleford, in the County of Gloucester, Metallurgist, for an invention for—"Improvements in the manufacture of cast steel." *Letters Patent sealed.*

King. 13th June 1857.

1661. John King, of Glasgow, in the County of Lanark, North Britain, Manufacturer, for an invention for—"Improvements in the manufacture or production of collars, cuffs and similar articles of ladies' dress." *Provisional protection only.*

March. 13th June 1857.

1662. Chapman March, of Alwalton Mills, in the County of Huntingdon, Miller, for an invention for—"Improvements in obtaining motive-power." *Letters Patent sealed; no specification filed.*

Cominal. 13th June 1857.

1663. Etienne Cominal, of Paris, France, Printer, for an invention for—"Improvements in printing shawls and other tissues." *Letters Patent sealed.*

Jones. 13th June 1857.

1664. Thomas Moreton Jones, of Cambridge Villas, Fulham, in the County of Middlesex, Gentleman, for an invention for—"Improvements in apparatus for cutting and gathering fruit and flowers." *Letters Patent sealed.*

Newton. 13th June 1857.

1665. Alfred Vincent Newton, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"An improvement in the manufacture of sulphuric acid."—*A communication.* *Letters Patent sealed.*

Gartner. 13th June 1857.

1666. Helmuth Gartner, of Mount Gardens, Lambeth, in the County of Surrey, Engineer, for an invention for—"An improved construction of engine for raising and discharging water." *Provisional protection only.*

Heaton. 15th June 1857.

1667. Thomas Heaton, of Bolton, in the County of Lancaster, Engineer, for an invention for—"Improvements in self-acting doors and gateways." *Letters Patent sealed.*

Vero. Everitt. 15th June 1857.

1668. Charles Vero, of Atherstone, in the County of Warwick, Hat Manufacturer, and James Everitt, of Atherstone aforesaid, Hat Manufacturer, for an invention for—"Improvements in the manufacture of hats and other coverings for the head, and in the machinery or apparatus to be employed in the said manufacture." *Letters Patent sealed.*

JOHNSON. 15th June 1857.

1669. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of 166, Buchanan Street, in the City of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in quadrants, sextants and other similar instruments."—*A communication from James C. Lane, of Brooklyn, in the State of New York, in the United States of America.* *Letters Patent sealed.*

SMITH. 15th June 1857.

1670. WILLIAM SMITH, of 10, Salisbury Street, Adelphi, Civil Engineer, for an invention for—"Improvements in chromotypographical printing presses."—*A communication from A. E. Rochette, of Vannes, but now of 36, Rue de l'Echiquier, Paris.* *Provisional protection only.*

NEWTON. 15th June 1857.

1671. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in puddling iron and in the furnaces and apparatus employed for the purpose."—*A communication.* *Letters Patent sealed.*

LEVICK. JAMES. 15th June 1857.

1672. FREDERICK LEVICK, junior, Iron Master, and JOHN JAMES, Furnace Manager, both of Cwm Celyn and Blaina Iron Works, in the County of Monmouth, for an invention for—"An improved construction of hot blast stove." *Letters Patent sealed.*

NEWTON. 15th June 1857.

1673. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"Improved means of registering the performance of railway trains.—*A communication.* *Letters Patent sealed.*

THOMPSON. 15th June 1857.

1674. EDMUND THOMPSON, of Barnard's Terrace, in the Parish of Scawby-with-Sturton, in the County of Lincoln, Teacher of Music and Pianoforte Tuner, for an invention for—"Improvements in pianoforte hammers." *Provisional protection only.*

YOUNG. 15th June 1857.

1675. WILLIAM YOUNG, of Queen Street, Cheapside, in the City of London, for an invention for—"Improvements in lamps and burners." *Letters Patent sealed.*

OCHIN. 16th June 1857.

1676. CHARLES BERNARD OCHIN, of No. 16, Place Royale, Paris, in the Empire of France, Merchant, for an invention for—"Improved metallic roofing slates." *Provisional protection only.*

LORD. 16th June 1857.

1677. THOMAS WILKES LORD, of Leeds, in the County of York, Consulting Machinist, and General Commission Agent, for an invention for—"A certain improvement in machinery for carding flax, tow and other fibrous substances." *Letters Patent sealed.*

SMITH. 16th June 1857.

1678. WILLIAM SMITH, of 10, Salisbury Street, Adelphi, Civil Engineer, for an invention for—"Improvements in steam generators."—*A communication from Jean Marrie Prost, Officer in the Imperial Navy.* *Letters Patent sealed.*

HOLMAN. 16th June 1857.

1679. STEPHEN HOLMAN, of No. 103, Douglas Street, New Cross, in the County of Kent, and of Whitefriars Street, London, Engineer, for an invention for—"Improvements in force pumps." *Provisional protection only.*

COCKER. 16th June 1857.

1680. JAMES COCKER, of Liverpool, in the County of Lancaster, Wire Drawer, for an invention for—"An improved construction of gauge for measuring wire and other articles." *Letters Patent sealed.*

NEWTON. 16th June 1857.

1681. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"An improved mode of and apparatus for feeding in fuel to furnaces and fire boxes."—*A communication.* *Letters Patent sealed.*

FOWLER. WORBY. 16th June 1857.

1682. JOHN FOWLER, junior, of Cornhill, in the City of London, Engineer, and WILLIAM WORBY, of Ipswich, in the County of Suffolk, Engineer, for an invention for—"Improvements in ploughing or tilling land." *Letters Patent sealed.*

EDWARDS. 16th June 1857.

1683. WILLIAM ALEXANDER EDWARDS, of Hereford Cottage, Denmark Road, Camberwell, in the County of Surrey, Engineer, for an invention for—"Improvements in apparatus for separating iron and other matters from ores and other substances."— *Provisional protection only.*

FOWLER.
BURTON.
CLARKE.
16th June 1857.

1684. JOHN FOWLER, junior, of Cornhill, in the City of London, ROBERT BURTON, of Maberly Terrace, Ball's Pond Road, in the County of Middlesex, and THOMAS CLARKE, of Saint James' Place, Hackney Road, also in the County of Middlesex, for an invention for—"Improvements in the construction and arrangement of locomotive and other carriages to facilitate their movement on common roads and other surfaces." *Letters Patent sealed.*

BOUSFIELD.
16th June 1857.

1685. GEORGE TOMLINSON BOUSFIELD, of Loughborough Park, Brixton, in the County of Surrey, for an invention for—"Improvements in the construction of wheels and axle boxes."—*A communication.* *Provisional protection only.*

ELLIS.
16th June 1857.

1686. JOSEPH ELLIS, of Brighton, for an invention for—"Improvements in apparatus to be used for decanting wine and other liquids, and for drawing corks from bottles." *Letters Patent sealed.*

DE BLAQUIERE.
16th June 1857.

1687. WILLIAM BARNARD DE BLAQUIERE, of 50, Pall Mall, in the County of Middlesex, Commander of Her Majesty's Ship Alban, for an invention for—"Improvements in connecting the ends of submarine electric telegraph cables." *Letters Patent sealed.*

GOULDING.
16th June 1857.

1688. RICHARD GOULDING, of No. 14, Victoria Road, Bonner Park, in the County of Middlesex, for an invention for—"Improvements in the extraction of gold and silver and other metals." *Letters Patent sealed.*

KÜRTEN.
17th June 1857.

1689. PHILIPP KÜRTEN, of Cologne, in the Kingdom of Prussia, Soap Manufacturer, for an invention for—"An improved process of manufacturing mottled soap." *Letters Patent sealed.*

SMITH.
17th June 1857.

1690. JOHN SMITH, of Oldham, in the County of Lancaster, Manufacturer, for an invention for—"Improvements in the manufacture of woven fabrics." *Provisional protection only.*

HODGSON.
HODGSON.
17th June 1857.

1691. WILLIAM HODGSON, and HENRY HODGSON, both of Bradford, in the County of York, Machine and Tool Makers, for an invention for—"An improved lubricator or oiler by means of force pumps or valves." *Provisional protection only.*

STURM.
BOUR.
17th June 1857.

1692. SALOMON STURM, Optician, and HENRY EMILE BOUR, Gentlemen, both of Paris, France, for an invention for—"Improvements in optical lenses and in machines for manufacturing the same." *Letters Patent sealed.*

HOSCH.
17th June 1857.

1693. HENRY HOSCH, of No. 12, Old Jewry Chambers, City of London, for an invention for—"An improved shirt-cutting machine."—*A communication.* *Provisional protection only.*

WHITEHEAD.
17th June 1857.

1694. JAMES HEYWOOD WHITEHEAD, of Southside, in the Parish of Saddleworth, in the County of York, Esquire, for an invention for—"Improvements in pressing cloth." *Letters Patent sealed.*

WARNER.
17th June 1857.

1695. FREDERICK WARNER, of Jewin Crescent, Cripplegate, for an invention for—"Improvements in supplying water to waterclosets and other vessels." *Letters Patent sealed.*

MARQFOY.
17th June 1857.

1696. GUSTAVE MARQFOY, Engineer, of Bordeaux (France), Cours du Jardin Public, No. 110, for an invention for—"Improvements in actuating railway signals." *Letters Patent sealed.*

BRINSMEAD.
17th June 1857.

1697. HENRY BRINSMEAD, of Fore Street, St. Clement's, Ipswich, for an invention for—"Improvements in machinery for dressing corn." *Letters Patent sealed.*

RANSOME.
17th June 1857.

1698. FREDERICK RANSOME, of Ipswich, Engineer, for an invention for—"Improvements in moulding plastic materials." *Provisional protection only.*

NEWTON.
17th June 1857.

1699. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"Improvements in machinery for forging nails and other articles."—*A communication.* *Letters Patent sealed.*

HIBBERT.
RICHARDSON.
17th June 1857.

1700. HENRY HIBBERT, of Salford, in the County of Lancaster, Engineer, and HENRY RICHARDSON, of Manchester, in the said County, Manufacturer, for an invention for—"Improvements in finishing or polishing yarns or threads." *Provisional protection only.*

CLARK.
18th June 1857.

1701. GEORGE PEMBERTON CLARK, of Newark, in the State of New Jersey, and United States of America, for an invention for—"An improved safety valve for steam-boilers." *Letters Patent sealed.*

RALPH.
RALPH.
18th June 1857.

1702. THOMAS LOWELL RALPH, of Birmingham, in the County of Warwick, Metal Roller, and THOMAS LOWELL RALPH, the younger, of Birmingham aforesaid, Metal Roller, for an invention for—"An improvement or improvements in the manufacture of metallic tubes." *Letters Patent sealed.*

WARD.
18th June 1857.

1703. THOMAS WARD, of Great Bridge, in the County of Stafford, Roll Turner, for an invention for—"An improvement or improvements in the manufacture of strip and hoop iron." *Letters Patent sealed.*

SYKES.
CRAWFORD.
18th June 1857.

1704. EDWARD SYKES, of Glossop, in the County of Derby, Tallow Chandler, and MATTHEW WILLIAM CRAWFORD, of the same place, Tallow Chandler, for an invention for—"Certain improvements in the construction and arrangement of the pans or vessels and the furnaces and flues to be employed for the purposes of soap boiling, tallow melting, bone boiling, dreg boiling, and other similar offensive processes." *Provisional protection only.*

THOMPSON.
18th June 1857.

1705. WILLIAM JOSEPH THOMPSON, of North Shields, Russian Vice Consul, for an invention for—"Improvements in machinery for preparing small coal and other matters to be used as fuel."—*A communication.* *Provisional protection only.*

BARTON.
18th June 1857.

1706. JOHN EVERARD BARTON, of Kidderminster, in the County of Worcester, Carpet Manufacturer, for an invention for—"An improvement in winding worsted on to creel bobbins of carpet looms." *Provisional protection only.*

CHARLWOOD.
18th June 1857.

1707. GEORGE WASHINGTON CHARLWOOD, of 14, Tavistock Row, Covent Garden, London, for an invention for—"Improvements in machines for mowing and reaping."—*A communication.* *Letters Patent sealed.*

DAY.
18th June 1857.

1708. HORACE HOLLISTER DAY, of New York, in the United States of America, India-rubber Manufacturer and Merchant, for an invention for—"Improvements in preparing and vulcanizing india-rubber, gutta-percha, or other analogous gums."—*A communication.* *Letters Patent sealed.*

DAY.
18th June 1857.

1709. HORACE HOLLISTER DAY, of New York, in the United States of America, India-rubber Manufacturer and Merchant, for an invention for—"Improvements in the manufacture of elastic fabrics." *Letters Patent sealed; no specification filed.*

SOREL.
19th June 1857.

1710. STANISLAS TRANQUILLE MODESTE SOREL, of 10, Rue de Lancry, Paris, Civil Engineer, for an invention for—"New chemical compositions producing either house paintings, cement or plastic paste to be moulded." *Letters Patent sealed.*

CHAMPION.
19th June 1857.

1711. JAMES CHAMPION, of the City of Manchester, in the County of Lancaster, Machine Maker, for an invention for—"Improved arrangements of spindles and flyers applicable to machinery or apparatus for preparing, spinning, and doubling fibrous materials." *Letters Patent sealed.*

PINCOFFS.
19th June 1857.

1712. SIMON PINCOFFS, of the City of Manchester, in the County of Lancaster, Manufacturing Chemist, for an invention for—"Improvements in treating madder, munjeet, or any of their preparations." *Letters Patent sealed.*

SPENCER.
19th June 1857.

1713. THOMAS SPENCER, Analytical Chemist, of 21, Southampton Place, Euston Square, London, for an invention for—"Certain improvements in the purification of water and other fluid and gaseous bodies." *Letters Patent sealed.*

HILL.
19th June 1857.

1714. JOSEPH HILL, of Mount Pleasant, near Ferry Hill, in the County of Durham, Roll Turner, for an invention for—"Improvements in the permanent way of railways." *Provisional protection only.*

JOHNSON.
19th June 1857.

1715. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of 166, Buchanan Street, in the City of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in pressure gauges."—*A communication.* *Letters Patent sealed.*

JAEGER.
19th June 1857.

1716. HERMAN JAEGER, of the London Coffee House, Ludgate Hill, in the City of London, Gentleman, for an invention for—"Improvements in looms for weaving."—*A communication.* *Provisional protection only.*

DAY.
19th June 1857.

1717. HORACE HOLLISTER DAY, of New York, in the United States of America, India-rubber Manufacturer and Merchant, for an invention for—"An improved method of treating or purifying gutta-percha."—*A communication.*
Letters Patent sealed.

GARRETT.
19th June 1857.

1718. JOHN DUNNELL GARRETT, of Saxmundham, in the County of Suffolk, Agricultural Implement Maker, for an invention for—"An improved construction of horse hoe." *Letters Patent sealed.*

NEWTON.
19th June 1857.

1719. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in the construction of railway crossings."—*A communication.* *Letters Patent sealed.*

RENNIE.
19th June 1857.

1720. ROBERT RENNIE, of Netherwood, in the County of Dumbarton, North Britain, Contractor, for an invention for—"Improvements in self-acting trap doors for mines." *Letters Patent sealed; no specification filed.*

KIRK.
LEADBETTER.
WILSON.
20th June 1857.

1721. EDWARD KIRK, Ironmonger, JAMES LEADBETTER, Brazier, and CHARLES WILSON, Ironmonger, all of Leeds, in the County of York, for an invention for—"Certain improvements in the manufacture of trunks, boxes, and other similar depositories." *Letters Patent sealed.*

WRIGHT.
20th June 1857.

1722. WILLIAM WRIGHT, of Sheffield, in the County of York, Plumber, for an invention for—"Improvements in flushing-apparatuses applicable to cisterns and waterclosets." *Letters Patent sealed.*

GARDNER.
20th June 1857.

1723. EDWARD VINCENT GARDNER, of 24, Norfolk Street, Middlesex Hospital, County of Middlesex, for an invention for—"Improvements in the means employed for burning fuel, and in the distribution of heat." *Letters Patents sealed.*

FOX.
20th June 1857.

1724. SAMUEL FOX, of Deepcar, Sheffield, in the County of York, Umbrella Manufacturer, for an invention for—"Improvements in fly presses."
Letters Patent sealed.

GRAHAME.
20th June 1857.

1725. THOMAS GRAHAME, of Upper Seymour Street, Portman Square, in the County of Middlesex, for an invention for—"Improvements in facilitating the passage of carriages on inclines of railways." *Provisional protection only.*

FOX.
20th June 1857.

1726. SAMUEL FOX, of Deepcar, Sheffield, in the County of York, Umbrella Manufacturer, for an invention for—"Improvements in the manufacture of umbrellas and parasols." *Letters Patent sealed.*

DUNINGTON.
20th June 1857.

1727. HENRY DUNINGTON, of Nottingham, for an invention for—"An improvement in the manufacture of cotton and silk and other warp pile fabrics."
Letters Patent sealed.

RICHARDSON.
20th June 1857.

1728. BENJAMIN RICHARDSON, of Wordsley Flint Glass Works, near Stourbridge, for an invention for—"Improvements in manufacturing and ornamenting articles of flint glass." *Letters Patent sealed.*

CLARK.
TUCK.
20th June 1857.

1729. EDWIN CLARK, of 20, Great George Street, Westminster, and JOSEPH HENRY TUCK, of 22, Pall Mall, for an invention for—"Improvements in blocking or supporting ships and other vessels for the purpose of docking them."
Provisional protection only.

WHITE.
20th June 1857.

1730. JOSEPH WHITE, of the firm of Nathaniel Hill, Son and White, of Coventry, Chronometer and Watch Manufacturers, for an invention for—"Improvements in escapements for chronometers and other time-keepers." *Provisional protection only.*

BUNN.
20th June 1857.

1731. LOCKINGTON ST. LAWRENCE BUNN, of Walbrook, in the City of London, India-rubber Merchant, for an invention for—"Improvements in the manufacture of Wellington boots." *Letters Patent sealed.*

LOMAX.
20th June 1857.

1732. WILLIAM ROTHWELL LOMAX, of 5, Albion Villas, Albion Road, Hammersmith, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in governors and pressure gauges." *Provisional protection only.*

CALDICOTT.
20th June 1857.

1733. THOMAS FORD CALDICOTT, of Boston, United States of America, for an invention for—"Improvements in planes."—*A communication.*
Provisional protection only.

COWELL.
20th June 1857.

1734. LAMBERT COWELL, of Adelphi, in the County of Middlesex, Gentleman, for an invention for—"An improved machine for teaching the art of swimming."
Letters Patent sealed.

NEWTON. 20th June 1857.

1735. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Certain improvements in looms for circular weaving, partly applicable to other purposes."—*A communication.* *Letters Patent sealed.*

LYNDE. 20th June 1857.

1736. JAMES GASCOIGNE LYNDE, of Great Queen Street, in the City of Westminster, Civil Engineer, for an invention for—"Improved means for detecting and preventing the waste of water in cisterns." *Letters Patent sealed.*

FLETCHER. 20th June 1857.

1737. CHARLES FLETCHER, of the City of Gloucester, Mechanic, for an invention for—"Improved machinery for making bricks, tiles and other articles of clay or plastic materials." *Provisional protection only.*

LA BAW. 20th June 1857.

1738. GEORGE W. LA BAW, of Jersey City, in the County of Hudson and State of New Jersey, United States of America, for an invention for—"Operating the sails of vessels from the deck by means of vertical shafts." *Letters Patent sealed.*

FONTAINEMOREAU. 22nd June 1857.

1739. PETER ARMAND LE COMTE DE FONTAINEMOREAU, of London, Paris, and Brussels, Patent Solicitor, for an invention for—"An improved propeller."—*A communication.* *Provisional protection only.*

NEWTON. 22nd June 1857.

1740. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improved machinery for cutting files."—*A communication.* *Letters Patent sealed.*

NORRIS. WORSTENHOLM. 22nd June 1857.

1741. JOHN NORRIS, Junior, of New York, in the United States of America, now of Birmingham, in the County of Warwick, Manufacturer, and GEORGE WORSTENHOLM, of St. Louis, Missouri, in the United States of America, now also of Birmingham aforesaid, Machinist in the employ of the said John Norris, Junior, for an invention for—"Improvements in machinery for making nails, bolts, spikes, screws, rivets, and screw blanks." *Letters Patent sealed.*

KNOWLES. 22nd June 1857.

1742. SIR FRANCIS CHARLES KNOWLES, of Lovell Hill, in the County of Berks, Baronet, for an invention for—"The manufacture of aluminium and of certain reagents to be used therein." *Letters Patent sealed.*

MURDOCH. 22nd June 1857.

1743. RICHARD MURDOCH, of the City of Baltimore, in the State of Maryland, and United States of America, for an invention for—"Improved running gear for vehicles." *Provisional protection only.*

SEROPYAN. 22nd June 1857.

1744. CHRISTOPHER DICRAN SEROPYAN, of Newhaven, in the State of Connecticut, one of the United States of America, for an invention for—"A mode of preparing bank notes, bills of exchange and other papers, to prevent counterfeiting by photography and its kindred processes, and a mode of preparing an ink for the same." *Letters Patent sealed; Specification filed by order.*

MACKENZIE. 22nd June 1857.

1745. THOMAS MACKENZIE, of Rathbone Place, Oxford Street, in the County of Middlesex, for an invention for—"Improvements in the internal decorations of those parts of buildings to which window draperies are to be affixed, and in the arrangement and construction of the curtain fixtures." *Provisional protection only.*

KNAPTON. 22nd June 1857.

1746. WILLIAM KNAPTON, of the Albion Foundry, Monk Bar, York, for an invention for—"An improved machine for drilling holes in metal and other substances." *Letters Patent sealed.*

BRIDGMAN. 23rd June 1857.

1747. THOMAS COOPER BRIDGMAN, of Bury St. Edmunds, in the County of Suffolk, Chemist, for an invention for—"Improvements in the construction of screens, riddles, or sieves." *Provisional protection only.*

SYMONS. 23rd June 1857.

1748. WILLIAM SYMONS, of Dunster, in the County of Somerset, Chemist, for an invention for—"Improved means of communication between the passengers and guards of railway trains." *Letters Patent sealed.*

SHAW. ROBINSON. 23rd June 1857.

1749. RICHARD SHAW, of Holme Lodge, near Burnley, in the County of Lancaster, Cotton Spinner, and JOHN ROBINSON, of Lower House, near Burnley aforesaid, Manager, for an invention for—"Certain improvements in machinery for preparing cotton and other fibrous materials. *Letters Patent sealed.*

PROUDFOOT. 23rd June 1857.

1750. DUNCAN PROUDFOOT, of Glasgow, in the County of Lanark, North Britain, Merchant, for an invention for—"Improvements in drying and preparing garancine." *Provisional protection only.*

HINKS.
NIBBS.
23rd June 1857.

1751. JAMES HINKS, of Birmingham, in the County of Warwick, Manufacturer, and JAMES SYSON NIBBS, of Handsworth, in the County of Stafford, Manufacturer, for an invention for—"Improvements in securing and liberating the corks or stoppers of bottles, and in the construction of the necks of bottles for facilitating the securing and liberating of corks and stoppers." *Provisional protection only.*

EVANS.
23rd June 1857.

1752. DANIEL EVANS, of 15, Railway Terrace, New Town Stratford, in the County of Essex, for an invention for—"Improvements in locomotive and other furnaces and in heating water to be supplied to steam-boilers." *Letters Patent sealed.*

BROOMAN.
23rd June 1857.

1753. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, E.C., Patent Agent, for an invention for—"Improvements in breech loading fire-arms."—*A communication.* *Provisional protection only.*

ROUSSELOT,
23rd June 1857.

1754. JOSEPH SCIPION ROUSSELOT, of Paris, in the French Empire, Civil Engineer, for an invention for—"An improved method of obtaining motive-power, and engine for applying the same." *Letters Patent sealed.*

BROOMAN.
23rd June 1857.

1755. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, E.C., Patent Agent, for an invention for—"An improved method of engraving and of copying figures, patterns, and other devices."—*A communication.* *Letters Patent sealed.*

NEWTON.
23rd June 1857.

1756. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in generating or obtaining motive-power."—*A communication from William Montgomery Storm, of New York City.* *Provisional protection only.*

WOOLLEY.
23rd June 1857.

1757. EDWARD WOOLLEY, of High Street, Marylebone, in the County of Middlesex, for an invention for—"An indicator for registering the names of persons occupying chambers and other apartments or offices, and for signifying whether such persons are in or out, and at what time they will return."—*Provisional protection only.*

FULTON.
ETTY.
24th June 1857.

1758. HAMILTON HENRY FULTON, of 8, Great Queen Street, Westminster, in the County of Middlesex, and THOMAS BODLEY ETTY, of 8, Great Queen Street, Westminster, in the County of Middlesex, for an invention for—"Increasing the traction and bearing surface of carriage wheels." *Provisional protection only.*

MORCOM.
24th June 1857.

1759. RICHARD MORCOM, of Redruth, in the County of Cornwall, Mining Agent, for an invention for—"Improvements in dressing ores." *Letters Patent sealed.*

HERAULT.
24th June 1857.

1760. CHARLES HERAULT, of Paris (France) Gentleman, for an invention for—"Improvements in apparatus for producing aërated waters."—*A communication.* *Provisional protection only.*

MALLET.
24th June 1857.

1761. ROBERT MALLET, of Bridge Street, Westminster, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in tiles and coverings for roofs and other parts of buildings." *Letters Patent sealed.*

VASSEROT.
24th June 1857.

1762. CHARLES FRÉDÉRIC VASSEROT, of 45, Essex Street, Strand, London, Patent Agent, for an invention for—"Improvements in the permanent way of railways."—*A communication from Jean Claude Durand, of Marseilles, in the Empire of France.* *Letters Patent sealed; no specification filed.*

GENHART.
24th June 1857.

1763. HENRY GENHART, Armourer, of the City of Liege, in the kingdom of Belgium, for an invention for—"Improvements in fire-arms, in rifling the same, and projectiles employed therewith." *Letters Patent sealed.*

IRELAND.
24th June 1857.

1764. GEORGE IRELAND,, of Birmingham, in the County of Warwick, for an invention for—"Improvements in raising weights, applicable to stamping or cutting metals and other similar purposes." *Letters Patent sealed.*

JUCKES.
24th June 1857.

1765. JOHN JUCKES, of No. 8, Dame Street, Islington, for an invention for—"Improvements in washing-machinery." *Letters Patent sealed.*

PARKES.
24th June 1857.

1766. ALEXANDER PARKES, of Birmingham, in the County of Warwick, Practical Chemist, for an invention for—"Improvements in coating metals with other metals." *Provisional protection only.*

CHURCH.
24th June 1857.

1767. JABEZ CHURCH, of Upper Kennington Lane, Vauxhall, in the County of Surrey, for an invention for—"Improvements in the manufacture of artificial fuel." *Provisional protection only.*

SANDERSON. 24th June 1857.

1768. CHARLES SANDERSON, of Sheffield, in the County of York, Merchant, for an invention for—"Improvements in the manufacture of railway bars, girders, and other articles requiring great strength and stiffness to resist pressure, concussion, or strain." *Letters Patent sealed.*

MUNTZ. 24th June 1857.

1769. GEORGE HENRI MARC MUNTZ, of Handsworth, in the County of Stafford, Engineer, for an invention for—"Improvements in the manufacture of metal tubes and axles or shafts." *Provisional protection only.*

EXLEY. OGDEN. 24th June 1857.

1770. JOSEPH EXLEY, of Leeds, in the County of York, Engineer, and JOHN OGDEN, of the same place, Engineer, for an invention for—"Improvements in furnaces or fireplaces for the prevention of smoke." *Letters Patent sealed.*

BOURRY. 24th June 1857.

1771. ERNEST AUGUSTE BOURRY, of St. Gall, in the Canton of St. Gall, Switzerland, Engineer, for an invention for—"Improvements in apparatus or machinery for working, expressing and moulding clay and other plastic materials." *Provisional protection only.*

JOHNSON. 24th June 1857.

1772. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of 166, Buchanan Street, in the City of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in apparatus for testing the strength of materials."—*A communication from Francis C. Lowthorp, of Trenton, in the County of Mercer, and State of New Jersey, United States of America.* *Letters Patent sealed.*

JOHNSON. 24th June 1857.

1773. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of 166, Buchanan Street, in the City of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in the preparation of surfaces for receiving paintings or printed impressions thereon."—*A communication from Elisha Lee, of Baltimore, in the United States of America.* *Provisional protection only.*

BROOMAN. 24th June 1857.

1774. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, E.C., Editor of the Mechanics' Magazine, and Patent Agent, for an invention for—'An improved composition or polish for maintaining the brilliancy of varnished or patent leather."—*A communication from Dollier, frères, of Paris.* *Provisional protection only.*

DE LA PONTONERIE. 24th June 1857.

1775. EDOUARD BESNIER DE LA PONTONERIE, of Paris, in the Empire of France, Merchant, for an invention for—"Improvements in apparatus for consuming smoke." *Letters Patent sealed.*

PAGE. 25th June 1857.

1776. CHARLES GRAFTON PAGE, of Washington, City in the United States of America, for an invention for—"Improvements in cylindrical door bolts." *Letters Patent sealed.*

PITMAN. 25th June 1857.

1777. JOHN TALBOT PITMAN, of the American and European Patent Office, No. 67, Gracechurch Street, London, for an invention for—"Improvements in machinery for making wood screws."—*A communication.* *Letters Patent sealed.*

BOURRY. 25th June 1857.

1778. ERNEST AUGUSTE BOURRY, of St. Gall, in the Canton of St. Gall, Switzerland, Engineer, for an invention for—"Improvements in kilns or ovens for burning or baking bricks, tiles, and other earthen or ceramic matters." *Provisional protection only.*

GREEN. 25th June 1857.

1779. WILLIAM GREEN, of No. 1, Ebury Street, Pimlico, in the County of Middlesex, Gentleman, for an invention for—"The letter announcer." *Letters Patent sealed.*

LOACH. 25th June 1857.

1780. JOHN LOACH, Japanner, of Birmingham, in the County of Warwick, for an invention for—"A metallic air-tight coffin." *Provisional protection only.*

WRIGHT. WRIGHT. ROBERTS. 25th June 1857.

1781. JOSIAH WRIGHT, of No. 8, Ernest Street, and ALFRED WRIGHT, of No. 1, Bayham Place, and FRANCIS ROBERTS, of No. 80, Bayham Street, in the Parish of Saint Pancras, in the County of Middlesex, for an invention for—"Treating the rhubarb plant to render its fibres applicable to the manufacture of paper, and the juice thereof to the manufacture of wine and spirits." *Letters Patent sealed.*

CROCKER. 25th June 1857.

1782. ELIJAH JAMES CROCKER, of Liverpool, in the County of Lancaster, Ship Chandler, for an invention for—"Improvements in the rigging of ships and other vessels."—*A communication.* *Letters Patent sealed.*

INGHAM.
INGHAM.
INGHAM.
25th June 1857.

1783. JOHN INGHAM, and EDWARD INGHAM, of Bradford, and BENJAMIN INGHAM, of Halifax, in the County of York, Dyers and Finishers, for an invention for—"Improvements in preparing worsted yarns for dyeing."
Letters Patent sealed; Specification filed by order.

ARTHINGTON.
SMITH.
25th June 1857.

1784. JOSEPH ARTHINGTON, Brass Founder, and HENRY SMITH, Brass Finisher, both of Huddersfield, in the County of York, for an invention for—"Improvements for the better illumination of the 'Davy Lamp.'" *Provisional protection only.*

PELEZ.
25th June 1857.

1785. ANTONIO PELEZ, of No. 19, Southampton Buildings, London, for an invention for—"A new composition for the manufacture of imitative stones."—*A communication.* *Provisional protection only.*

GREEN.
25th June 1857.

1786. JACOB GREEN, of Onehouse, Stowmarket, in the County of Suffolk, for an invention for—"Certain improvements applicable to bedsteads and other articles of furniture, for the purpose of excluding therefrom bugs or other similar insects."
Provisional protection only.

PALMER.
25th June 1857.

1787. WILLIAM PALMER, of No. 156, Western Road, Brighton, in the County of Sussex, for an invention for—"Improvements in watering-pots, garden-engines, and other apparatus for watering surfaces." *Letters Patent sealed.*

HANCOCK.
25th June 1857.

1788. JAMES LAMB HANCOCK, of Pentonville, in the County of Middlesex, Manufacturer, for an invention for—"Improvements in means or apparatus for washing or cleansing." *Letters Patent sealed.*

STRUVÉ.
25th June 1857.

1789. WILLIAM PRICE STRUVÉ, of the Town of Swansea, in the County of Glamorgan, Civil Engineer, for an invention for—"Improvements in miners' safety lamps." *Letters Patent sealed.*

BOUGH.
25th June 1857.

1790. WILLIAM BOUGH, of Bunhill Row, in the City of London, for an invention for—"Improvements in lamps for burning resin and other oils and fluids, also an improvement in Argand gas burners." *Provisional protection only.*

BOURNE.
25th June 1857.

1791. STEPHEN BOURNE, of 4, Leonard's Square, Kentish Town, in the County of Middlesex, for an invention for—"An improvement in the manufacture of felted fabrics." *Provisional protection only.*

GLOVER.
25th June 1857.

1792. HOWARD GLOVER, of Lambeth, in the County of Surrey, Millwright, for an invention for—"An improvement in pump buckets." *Provisional protection only.*

LLOYD.
26th June 1857.

1793. JOHN LLOYD, of Llangefni, in the County of Anglesea, M.D., for an invention for—"Improvements in utilizing and deodorizing sewage matters of dwelling houses and other places, and in apparatus to be used in connection with the same."
Letters Patent sealed.

HATTERSLEY.
26th June 1857.

1794. ROBERT HATTERSLEY, of Ardwick, near the City of Manchester, Engineer, for an invention for—"Improvements in machinery for distributing and setting up or composing type." *Letters Patent sealed.*

BOURNE.
26th June 1857.

1795. JOHN BOURNE, of No. 9, Billiter Street, in the City of London, Civil Engineer, for an invention for—"An improved steam train for navigating shallow rivers." *Complete Specification; Letters Patent sealed.*

PARSONS.
26th June 1857.

1796. WILLIAM PARSONS, of Brighton, in the County of Sussex, Carpenter, for an invention for—"Improvements in fittings to door handles and spindles."
Letters Patent sealed.

NICHOLLS.
LEDWARD.
26th June 1857.

1797. BENJAMIN NICHOLLS, of the City of Manchester, in the County of Lancaster, Cotton Spinner, and SAMUEL LEDWARD, of the same place, Mechanic, for an invention for—"Improvements in mules for spinning." *Letters Patent sealed.*

CROOK.
RUSHTON.
CROWTHER.
26th June 1857.

1798. WILLIAM CROOK, GILBERT RUSHTON, and JOSEPH CROWTHER, all of Blackburn, in the County of Lancaster, for an invention for—"Improvements in looms." *Letters Patent sealed.*

WATKINS.
26th June 1857.

1799. FRANCIS WATKINS, of Victoria Works, Smethwick, near Birmingham, for an invention for—"Improvements in the manufacture of screw nuts."—*A communication from America by the inventor, Richard H. Cole, of St. Louis, United States.*
Provisional protection only.

MICHAELIS. CLEMSON. 26th June 1857.

1800. MICHAEL MICHAELIS, of Manchester, in the County of Lancaster, Warehouseman, and JOHN CLEMSON, of the same place, Dyer and Printer, for an invention for—"Improvements in the production of ornamental textile fabrics by printing." *Provisional protection only.*

HEYWOOD. 26th June 1857.

1801. BENNETT JOHNS HEYWOOD, of Leicester Square, in the County of Middlesex, Gentleman, for an invention for—"Improvements in the manufacture of india-rubber goods." *Provisional protection only.*

GAUDRION. 26th June 1857.

1802. STANISLAS GAUDRION, of 53, Chancery Lane, London, and of Paris, in the Empire of France, for an invention for—"An improvement in screw propellers."—*A communication from Mr. Jules Vergne.* *Letters Patent sealed.*

PRESTON. 27th June 1857.

1803. JONATHAN PRESTON, of Pendleton, in the County of Lancaster, Engineer, for an invention for—"Improvements in apparatus for regulating the pressure of steam and other fluids." *Provisional protection only.*

POLLARD. 27th June 1857.

1804. JOSEPH POLLARD, of Highdown, near Hitchin, in the County of Herts, Farmer, for an invention for—"Improvements in machinery or apparatus for distributing manure." *Provisional protection only.*

THURBER. 27th June 1857.

1805. CHARLES THURBER, of the City and County of Worcester, and State of Massachusetts, United States of America, for an invention for—"An improved caligraph or writing machine for writing and similar purposes." *Letters Patent sealed.*

GREEN. COPPIN. 27th June 1857.

1806. JOHN GREEN, of the Town and County of Newcastle-upon-Tyne, Architect, and WILLIAM COPPIN, junior, of Blyth, in the County of Northumberland, Agent, for an invention for—"The preservation of timber." *Provisional protection only.*

HOWLAND, 27th June 1857.

1807. RICHARD HOWLAND, of London, in the County of Middlesex, for an invention for—"Improvements in the construction of mangles." *Letters Patent sealed.*

LIGER. 27th June 1857.

1808. PIERRE EUGÈNE LIGER, of Rouez, in the Department of Sarthe (Empire of France), Miller, for an invention for—"Improvements in grinding-mills." *Provisional protection only.*

OLIVIER. 27th June 1857.

1809. ARSÈNE AUGUSTE OLIVIER, of Paris, in the Empire of France, Civil Engineer, for an invention for—"Improvements in treating or preparing and winding silk from the cocoon, and in apparatus for the same." *Letters Patent sealed.*

SWINDELLS. ARNOLD. 27th June 1857.

1810. GEORGE SWINDELLS, of Bollington, near Macclesfield, in the County of Chester, Cotton Spinner, and JONATHAN ARNOLD, of the same place, Manager, for an invention for—"Certain improvements in spinning and doubling yarns, and in machinery or apparatus of the kind commonly known as mules and twining jennies." *Letters Patent sealed.*

CARTER. HODGSON. 27th June 1857.

1811. JOHN CARTER, and BROOK HODGSON, both of Halifax, in the County of York, for an invention for—"Improvements in weaving carpets and other fabrics." *Letters Patent sealed.*

NEWTON. 27th June 1857.

1812. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improved machinery for grinding the teeth of card cylinders."—*A communication.*—*Letters Patent sealed.*

BIGGS. 27th June 1857.

1813. JAMES BIGGS, of 472, New Oxford Street, Papier Mâché Manufacturer, for an invention for—"A portable folding perambulator which is so constructed as to occupy less space than any that has hitherto been invented." *Provisional protection only.*

LAURENT. 29th June 1857.

1814. NARCISSE LAURENT, of Paris, in the Empire of France, Merchant, for an invention for—"Improvements in the process of dressing and manufacturing shammy leather." *Letters Patent sealed.*

NYE. 29th June 1857.

1815. SAMUEL NYE, of No. 79, Wardour Street, in the County of Middlesex, for an invention for—"Improvements in mills for grinding coffee, pepper, spices and other substances." *Letters Patent sealed.*

VION. 29th June 1857.

1816. CHARLES VION, of 4, Baker Street, Portman Square, London, County of Middlesex, Civil Engineer, for an invention for—"Treating oils and fatty matters."—*A communication.* *Provisional protection* NOT *granted.*

PATTISON. 29th June 1857.

1817. JUAN PATTISON, of Moorgate Street, in the City of London, Engineer, for an invention for—"An improved rotatory pump." *Letters Patent sealed.*

LAWRENCE. 29th June 1857.

1818. JAMES LAWRENCE, of Colnbrook, in the County of Middlesex, Brewer, for an invention for—"Improvements in apparatus for brewing."—*Letters Patent sealed.*

MEAKIN. 29th June 1857.

1819. JOHN FORSTER MEAKIN, of 84, Baker Street, Portman Square, London, Upholsterer, for an invention for—"Improvements in carriages for children, commonly called perambulators, and applicable to carriages for invalids."—*Letters Patent sealed.*

GILBEE. 29th June 1857.

1820. HENRY GILBEE, of No. 4, South Street, Finsbury, London, and 39, Rue de l'Echiquier, Paris, in the Empire of France, for an invention for—"Improvements in machinery for moulding vermicelli and other paste."—*A communication.*
Letters Patent sealed.

FIELD. HUMFREY. 29th June 1857.

1821. JOHN LYON FIELD, of Lambeth, and CHARLES HUMFREY the younger, of Camberwell, both in the County of Surrey, Candle Makers, for an invention for—"Improvements in the manufacture of candles." *Letters Patent sealed.*

BUCHHOLZ. 29th June 1857.

1822. GUSTAV ADOLPH BUCHHOLZ, of Strasbourg, in the Empire of France, Civil Engineer, for an invention for—"Improved machinery for hulling and cleaning rice, wheat and other grain." *Letters Patent sealed.*

MALTBY. 29th June 1857.

1823. WILLIAM MALTBY, of Grove Hill, Camberwell, in the County of Surrey, Gentleman, for an invention for—"Improvements in the mode of extracting ammonia and other compounds from gas, gas liquor, sewerage and other substances."
Provisional protection only.

PITMAN. 30th June 1857.

1824. JOHN TALBOT PITMAN, of the American and European Patent Offices, No. 67, Gracechurch Street, London, for an invention for—"An improved method of making carburetted hydrogen gas."—*A communication.* *Letters Patent sealed.*

HARDCASTLE. 30th June 1857.

1825. THOMAS HARDCASTLE, of Bradshaw, near Bolton-le-Moors, in the County of Lancaster, Printer, Dyer, and Bleacher, for an invention for—"A machine for doubling, winding, plaiting, and measuring cotton and other fabrics."
Letters Patent sealed.

CLÖET. 30th June 1857.

1826. ISIDORE CHARLES CLÖET, of Ghent in the Kingdom of Belgium, and of the Office for Patents, 77, Chancery Lane, in the County of Middlesex, Engineer, for an invention for—"An improved rice and barley mill." *Letters Patent sealed.*

PARSONS. 30th June 1857.

1827. WILLIAM PARSONS, of No. 25, Clifton Street, Brighton, in the County of Sussex, Carpenter and Joiner, for an invention for—"Improvements in fastenings for windows and casements and for other similar purposes." *Letters Patent sealed.*

ALSOP. FAIRBURN. 30th June 1857.

1828. JOSEPH ALSOP, and EDWARD FAIRBURN, of Kirkler's, Mill Mirfield, Yorkshire, for an invention for—"Improvements in machinery for the manufacture of bread, biscuits, and cakes." *Letters Patent sealed.*

SPOTTISWOODE. 30th June 1857.

1829. ANDREW SPOTTISWOODE, of 12, James Street, Buckingham Gate, in the County of Middlesex, for an invention for—"Improvements in machinery for compressing artificial fuel and other substances." *Letters Patent sealed.*

POLE. 30th June 1857.

1830. WILLIAM POLE, of Birdcage Walk, in the County of Middlesex, for an invention for—"Improved means for supporting telegraph wires."—*A communication from Charles Coles Adley, of Serampore, East India.* *Letters Patent sealed.*

NICKLESS. 1st July 1857.

1831. JOSEPH NICKLESS, of Coalbrook Dale, in the County of Salop, Pattern Maker, for an invention for—"A new or improved railway chair."
Letters Patent sealed.

BREWER. 1st July 1857.

1832. THOMAS BREWER, of Neithrop, Banbury, in the County of Oxford, Whitesmith, for an invention for—"Improvements in machines for cutting and reducing turnips or other vegetable substances." *Letters Patent sealed.*

PRINCE. 1st July 1857.

1833. ALEXANDER PRINCE, of No. 4, Trafalgar Square, Charing Cross, in the County of Middlesex, Patent Agent, for an invention for—"Improvements in the construction of irons used by tailors and others for pressing cloth and other materials."—*A communication from Schaffer and Walcker, of Berlin, in the Kingdom of Prussia, and Joseph Herschmann of Prague, in the Kingdom of Bohemia.*
Provisional protection only.

LEFFLER. 1st July 1857.

1834. CARL JOHANN LAWRENCE LEFFLER, of Westbourne Terrace, in the County of Middlesex, Gentleman, for an invention for—"Improved machinery for cutting corks, bungs and other similar articles."—*A communication.* *Letters Patent sealed.*

NEWTON. 1st July 1857.

1835. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improved processes for ornamenting metallic surfaces, and for producing surfaces in intaglio or in relief, for printing purposes."—*A communication from Charles Négre, of Paris, in the Empire of France.* *Letters Patent sealed.*

MURRAY. 1st July 1857.

1836. GEORGE MURRAY, of Glasgow, in the County of Lanark, North Britain, Artist, for an invention for—"Improvements in machinery or apparatus for propelling ships and vessels." *Provisional protection only.*

DANCHELL. KIMBER. 2nd July 1857.

1837. FREDERIC LUDWIG HAHN DANCHELL, of No. 452, New Oxford Street, in the County of Middlesex, Civil Engineer, and HENRY KIMBER, Grove Terrace, Clapham, in the County of Surrey, for an invention for—"Improvements in the manufacture of fire and waterproof bricks, plates, crucibles and other vessels, forms for castings and similar articles."—*A communication from Carl Buring of Rostock in Mecklenburg.* *Provisional protection only.*

SMITH. 2nd July 1857.

1838. ANDREW SMITH, of Princes Street, in the County of Middlesex, Engineer, for an invention for—"Improvements in the Construction of life boats and other boats or vessels." *Provisional protection only.*

OLOFSON. 2nd July 1857.

1839. EDOUARD BECKMAN OLOFSON, of Cologne, in the Kingdom of Prussia, Civil Engineer, for an invention for—"Improvements in the manufacture of pigments or colours for preserving iron." *Letters Patent sealed.*

MALARD. 2nd July 1857.

1840. AUGUSTUS PHILIBERT MALARD, of 39, Rue de l'Echiquier, Paris, and 4, South Street, Finsbury, London, Engraver, for an invention for—"Certain improvements in filtering water and other liquids." *Letters Patent sealed.*

LAURENT. 2nd July 1857.

1841. MARGUERITE ANTOINETTE LAURENT, of 39, Rue de l'Echiquier, Paris, and 4, South Street, Finsbury, London, for an invention for—"A new antiseptic composition." *Letters Patent sealed.*

MOY. 2nd July 1857.

1842. THOMAS MOY, of Clifford's Inn, in the City of London, Law Stationer, for an invention for—"Improvements in the mode of working steam-engines." *Letters Patent sealed.*

M'CRAW. 2nd July 1857.

1843. WILLIAM M'CRAW, of Edinburgh, in the County of Midlothian, North Britain, Artist, for an invention for—"Improvements in the production of photographic pictures." *Provisional protection only.*

BELLHOUSE. DORNING. 2nd July 1857.

1844. EDWARD TAYLOR BELLHOUSE, of Manchester, in the County of Lancaster, Engineer, and WILLIAM JOHN DORNING, of the same place, Engineer, for an invention for—"Improvements in steam-boilers." *Provisional protection only.*

ORPHIN. LYONS. 2nd July 1857.

1845. CHARLES ORPHIN, Lamp Manufacturer, of Birmingham, in the County of Warwick, and EDWARD LYONS, Lamp Manufacturer, also of Birmingham as aforesaid, for an invention for—"Certain improvements in table and other lamps." *Letters Patent sealed.*

DAVIES. 2nd July 1857.

1846. GEORGE DAVIES, of No. 1, Serle Street, Lincoln's Inn, in the County of Middlesex, and No. 28, St. Enoch Square, in the City of Glasgow, Civil Engineer and Patent Agent, for an invention for—"An improved marine engine governor."—*A communication from William H. Elliot, of Plattsburgh, in the State of New York, United States of America.* *Letters Patent sealed.*

CUTLER. 2nd July 1857.

1847. GEORGE CUTLER, of the City of Manchester, in the County of Lancaster, Commission Agent, for an invention for—"Improvements in mangles." *Provisional protection only.*

BROWNE. 2nd July 1857.

1848. TOMYNS BROWNE, of Liverpool, in the County of Lancaster, for an invention for—"An instrument for ascertaining the true or actual acclivity and declivity of bodies." *Letters Patent sealed.*

ROWAN. 2nd July 1857.

1849. WILLIAM ROWAN, of the firm of John Rowan and Sons, of Belfast, in the County of Antrim, Engineers, for an invention for—"Improvements in scutching and heckling flax and other similar vegetable fibres, and in machinery employed therein." *Letters Patent sealed.*

ROWAN. 2nd July 1857.

1850. WILLIAM ROWAN, of the firm of John Rowan and Sons, of Belfast, in the County of Antrim, Engineers and Boiler makers, for an invention for—"Improvements in steam-boilers and furnace flues." *Letters Patent sealed.*

WOODWORTH. 2nd July 1857.

1851. CHARLES W. WOODWORTH, of Liverpool, in the County of Lancaster, Ship Chandler, for an invention for—"Improvements applicable to capstans and other like purchases."—*A communication.* *Provisional protection only.*

MEEUS. 2nd July 1857.

1852. JEAN BAPTISTE MEEUS, of Arlon, in the Kingdom of Belgium, for an invention for—"An improved method of multiplying motive-power and transmitting it to a shaft or other mechanism." *Letters Patent sealed.*

LOCKETT. WATSON. 3rd July 1857.

1853. JOSEPH LOCKETT, of Strangeways, in the City of Manchester, Engraver, and WILLIAM WATSON, of Alexandria, in the County of Dumbarton, North Britain, Machine Engraver, for an invention for—"Improvements in machinery for engraving or tracing designs on cylindrical or other surfaces for printing calico and other materials." *Letters Patent sealed.*

CLARK. 3rd July 1857.

1854. MATTHEW CLARK, of Alexandria, in the County of Dumbarton, Calico Printer, for an invention for—"Improvements in the preparation of cloth for Turkey red dyeing." *Letters Patent sealed.*

CROLL. 3rd July 1857.

1855. ALEXANDER ANGUS CROLL, of Harold's Wood Lodge, near Romford, in the County of Essex, Civil Engineer, for an invention for—"Improvements in the treatment of liquors containing combinations of sulphur with ammonia." *Letters Patent sealed.*

TOPHAM. 3rd July 1857.

1856. CHARLES TOPHAM, of Hoxton, in the County of Middlesex, Engineer, for an invention for—"An improved apparatus for raising and forcing liquids." *Provisonal protection only.*

RUEGG. 3rd July 1857.

1857. EMANUEL RUEGG, of 39, Rue de l'Echiquier, Paris, and 4, South Street, Finsbury, London, Bird Cage Manufacturer, for an invention for—"An improved calendar inkstand." *Letters Patent sealed.*

FORDRED. 3rd July 1857.

1858. JOHN FORDRED, of Stoke Newington, in the County of Middlesex, Gentleman, for an invention for—"Improvements in treating and purifying water." *Provisional protection only.*

MEARS. HOULTON. 3rd July 1857.

1859. HENRY D. MEARS, and WILLIAM HOULTON, Junior, of the City of Baltimore, and United States of America, for an invention for—"An improved seal for railway luggage vans and for other purposes." *Letters Patent sealed.*

GARDNER. 3rd July 1857.

1860. JOHN EDMUND GARDNER, of the firm of H. and J. E. Gardner, of 453, Strand, Middlesex, Lamp Manufacturer, for an invention for—"Improvements in illuminated clocks and in the apparatus employed for lighting the same." *Provisional protection only.*

HENDRY. HANCOCK. 3rd July 1857.

1861. WILLIAM THOMS HENDRY, of 38, Upper Thames Street, in the City of London, Engineer, and ROBERT HENRY HANCOCK, of 23, Great Percy Street, Pentonville, in the County of Middlesex, India-rubber Manufacturer, for an invention for—"Improvements in the manufacture of flexible tubes or hose pipes." *Letters Patent sealed.*

AGAR. AGAR. 3rd July 1857.

1862. JOHN AGAR, and WILLIAM AGAR, of Bury, in the County of Lancaster, Watch Manufacturers, for an invention for—"Improvements in watches and keys for the same." *Letters Patent sealed.*

ROYDS. ROSCOW. LORD. 3rd July 1857.

1863. THOMAS ROYDS, Manager, THOMAS ROSCOW, Coal Master, and JAMES LORD, Gentleman, all of Rochdale, in the County of Lancaster, for an invention for—"Improvements in lifting heavy bodies under certain circumstances, such as minerals or other substances from mines to the surface of the earth, or from one story of an edifice to another, and in machinery or apparatus to be used for such purposes." *Letters Patent sealed.*

GIBSON. GASCOIGNE. GIBSON. 4th July 1857.

1864. ROBERT GIBSON, of Hunslet, in the County of York, Engineer, JOSEPH GASCOIGNE, of Hunslet aforesaid, Engineer, and SAMUEL GIBSON, of Hunslet aforesaid, Engineer, for an invention for—"Improvements in boilers for generating steam." *Provisional protection only.*

HENRY. 4th July 1857.

1865. MICHAEL HENRY, of 77, Fleet Street, in the City of London, Patent Agent, for an invention for—"Improvements in machinery or apparatus for cutting vegetable substances."—*A communication from Messrs. Ouin and Dugué.* *Provisional protection only.*

HENRY. 4th July 1857.

1866. MICHAEL HENRY, of 77, Fleet Street, in the City of London, Patent Agent, for an invention for—"An improved machine for cleaning and crushing grain."—*—A communication from Messrs. Ouin and Dugué.* *Provisional protection only.*

COOPER. 4th July 1857.

1867. GEORGE COOPER, Tinner and Brazier, of Stanley Street, Sheffield, in the County of York, for an invention for—"Improvements in safety lamps." *Letters Patent sealed.*

GRANTHAM. SHARP. 4th July 1857.

1868. JOHN GRANTHAM, and HENRY SHARP, of Liverpool, in the County of Lancaster, Engineers, for an invention for—"Improvements in working the valves of steam-engines." *Provisional protection only.*

MILLS. 4th July 1857.

1869. JOSEPH MILLS, of Leicester, in the County of Leicester, for an invention for —"An improved method of covering ricks, booths, tents, and such like places." *Provisional protection only.*

SMITH. 4th July 1857.

1870. JOHN SMITH, of Bradford, in the County of York, Machine Maker, for an invention for—"Improvements in flour dressing machines." *Letters Patent sealed.*

BOWDEN. 6th July 1857.

1871. THOMAS BOWDEN, of Pendleton, in the County of Lancaster, Millwright, for an invention for—"Improvements in apparatus for discharging the water resulting from the condensing of steam used in apparatus heated by steam." *Letters Patent sealed.*

MUNT. 6th July 1857.

1872. WILLIAM MUNT, of No. 16, Charterhouse Lane, Smithfield, London, for an invention for—"A shank to be attached to all descriptions of buttons, to be called an eyelet shank." *Letters Patent sealed*

HILLS. 6th July 1857.

1873. FRANK CLARKE HILLS, of Deptford, in the County of Kent, Manufacturing Chemist, for an invention for—"Improvements in the manufacture of sulphuric acid." *Letters Patent sealed.*

FAULKNER. FAULKNER. 7th July 1857.

1874. CHARLES FAULKNER, and DAVID FAULKNER, both of Birmingham, in the County of Warwick, Gun Barrel Makers, for an invention for—"Improvements in gun and pistol barrels and in cannons, and in furnaces for the same." *Letters Patent sealed.*

ALISON. 7th July 1857.

1875. JOHN ALISON, of Hainault Forest, in the County of Essex, Gentleman, for an invention for—"Improvements in preparing vegetable substances for feeding animals, and in apparatus for that purpose." *Letters Patent sealed.*

DAWES. 7th July 1857.

1876. WILLIAM DAWES, of Wellington, in the County of Salop, Engineer, for an invention for—"Improvements in the pistons of steam-engines." *Provisional protection only.*

VON CANIG. 7th July 1857.

1877. WILHELM ADOLF VON CANIG, of Leipsic, in the Kingdom of Saxony, but now residing at Birmingham, in the County of Warwick, Gentleman, for an invention for—"A new or improved compound or composition to be used as a substitute for gum, paste and other adhesive materials, and for finishing, sizing or stiffening fabrics and other articles to which the same is or may be applicable." *Provisional protection only.*

BADGE. 7th July 1857.

1878. RICHARD JOHN BADGE, of Newton Heath, near Manchester, in the County of Lancaster, Storekeeper to the Lancashire and Yorkshire Railway Company, for an invention for—"Improvements in railway chairs." *Letters Patent sealed.*

PLATT. 7th July 1857.

1879. JOSEPH PLATT, of Audlem, in the County of Chester, Gentleman, for an invention for—"Improvements in gunlocks." *Provisional protection only.*

BOUSFIELD. 7th July 1857.

1880. FREDERICK BOUSFIELD, of No. 20, Hereford Terrace, De Beauvoir Town, in the County of Middlesex, Gentleman, for an invention for—"Improvements in the manufacture of soap." *Letters Patent sealed.*

SPEIGHT. 7th July 1857.

1881. JOHN SPEIGHT, of Bradford, in the County of York, Wool Comber, for an invention for—"Improvements in wool combing, and in machines known as 'Collier's Combing Machines.'" *Provisional protection only.*

FONTAINEMOREAU. 7th July 1857.

1882. PETER ARMAND LE COMTE DE FONTAINEMOREAU, of No. 39, Rue de l'Echiquier, Paris, and 4, South Street, Finsbury, London, Patent Agent, for an invention for—"Certain improvements in apparatus for the manufacture of boots and shoes, which apparatus is also applicable for uniting other articles together."—*A communication.* *Letters Patent sealed.*

BÉRARD. 7th July 1857.

1883. PETER HIPPOLYTE GUSTAVE BÉRARD, of 323, Rue St. Denis, Paris, in the Empire of France, for an invention for—"Improvements in manufacturing azotic cotton or pyroxile for photographic and other purposes." *Letters Patent sealed.*

BÉRARD. 7th July 1857.

1884. PETER HIPPOLYTE GUSTAVE BÉRARD, of 323, Rue St. Denis, Paris, in the Empire of France, for an invention for—"Improvements in manufacturing and applying concentrated collodion." *Letters Patent sealed.*

JULLION. 7th July 1857.

1885. JOHN LOUIS JULLION, of Foots Cray, in the County of Kent, Analytical Chemist, for an invention for—"The mechanical and chemical separation of solids from fluids." *Provisional protection only.*

SMITH. 7th July 1857.

1886. WILLIAM SMITH, of Kettering, in the County of Northampton, Agricultural Implement Manufacturer, for an invention for—"Improvements in horse hoes and drills." *Letters Patent sealed.*

BROOMAN. 7th July 1857.

1887. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, E.C., Editor of the Mechanics' Magazine, and Patent Agent, for an invention for—"The manufacture upon circular frames of a fabric suitable for petticoats and other garments, curtains and other articles of furniture."—*A communication from Monsieur Lucevilliard.* *Provisional protection only.*

BROOMAN, 7th July 1857.

1888. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, E.C., Editor of the Mechanics' Magazine, and Patent Agent, for an invention for—"Improvements in vices."—*A communication from Monsieur Neullies.* *Letters Patent sealed.*

BURGESS. 7th July 1857.

1889. WILLIAM BURGESS, of the firm of Burgess and Key, of Newgate Street, in the City of London, Agricultural Implement Makers, for an invention for—"Improvements in reaping and mowing machines." *Letters Patent sealed.*

BROOMAN. 7th July 1857.

1890. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, E.C., Editor of the Mechanics' Magazine, and Patent Agent, for an invention for—"Improvements in connecting carriages and waggons on railways."—*A communication from Monsieur Mouret.* *Provisional protection only.*

HENRY. 7th July 1857.

1891. MICHAEL HENRY, of 77, Fleet Street, in the City of London, Patent Agent, for an invention for—"Improvements in railways and wagons used therewith, in loading and discharging coals, stones, ballast, earth and other materials."—*A communication from B. A. Soullié, and G. Vigneau.* *Letters Patent sealed.*

JONES. 8th July 1857.

1892. WILLIAM EDMONDSON JONES, of Glade's Spring, in the State of Virginia, United States of America, for an invention for—"An improvement in trees of riding saddles." *Letters Patent sealed.*

PITMAN. 8th July 1857.

1893. JOHN TALBOT PITMAN, of the American and European Patent Offices, No. 67, Gracechurch Street, London, for an invention for—"A conical tent."—*A communication.* *Letters Patent sealed.*

GREEN. 8th July 1857.

1894. GEORGE GREEN, of Whitehorse Lane, Mile End Road, in the County of Middlesex, for an invention for—"Improvements in machinery for the manufacture of casks, barrels and other similar articles." *Letters Patent sealed.*

HENLEY. 8th July 1857.

1895. THOMAS FREDERICK HENLEY, of Bromley, in the County of Middlesex, for an invention for—"Improvements in the preparation or manufacture of certain beverages or liquors of the nature and character of home-made wines, and in the means of obtaining the same. *Letters Patent sealed.*

BRIANCHON. 8th July 1857.

1896. JULES JOSEPH HENRI BRIANCHON, of Paris, in the Empire of France, for an invention for—"Improvements in colouring and ornamenting glass, porcelain, earthenware and other ceramic substances." *Letters Patent sealed.*

GIBBS. 8th July 1857.

1897. JOSEPH GIBBS, of Abingdon Street, in the City of Westminster, Civil Engineer, for an invention for—"Improvements in extracting gold and silver from their matrices and from other substances or materials with which they are combined, mixed or associated. *Letters Patent sealed.*

NISSEN. 8th July 1857.

1898. HILARY NICHOLAS NISSEN, of Mark Lane, in the City of London, Stationer, for an invention for—"An improved method of making impressions similar to water marks upon paper." *Provisional protection only.*

BELLHOUSE. DORNING. 8th July 1857.

1899. EDWARD TAYLOR BELLHOUSE, of Manchester, in the County of Lancaster, Engineer, and WILLIAM JOHN DORNING, of the same place, Engineer, for an invention for—"Certain improvements in hydraulic presses."—*Provisional protection only.*

BAHN. 8th July 1857.

1900. LOUIS ALBERT BAHN, of Greek Street, Soho, in the County of Middlesex, Gentleman, for an invention for—"Improvements in the manufacture and application of certain metallic alloys." *Provisional protection only.*

BAHN. 8th July 1857.

1901. LOUIS ALBERT BAHN, of Greek Street, Soho, in the County of Middlesex, Gentleman, for an invention for—"Improvements in galvanizing metals, and in the apparatus employed therein." *Provisional protection only.*

CUMMINS. 8th July 1857.

1902. NICHOLAS MARSHALL CUMMINS, of Annmount, in the County of Cork, Ireland, Esquire, for an invention for—"Improved means for indicating the proximity of icebergs."—*A communication from Lieutenant Colonel John Swayte Cummins, of Robinson, near Montreal, Canada East.* *Letters Patent sealed.*

MOORE. 8th July 1857.

1903. ROBERT MOORE, of Isleworth, in the County of Middlesex, Naval Architect, for an invention for—"Improvements applicable to navigable vessels and the propelling thereof." *Provisional protection only.*

DOBSON. 9th July 1857.

1904. ARTHUR DOBSON, of Belfast, in the County of Antrim, in Ireland, Bleacher and Finisher, for an invention for—"Improvements in machinery or apparatus to be used in bleaching, washing, starching, airing and finishing fabrics, and in sizing yarns." *Provisional protection only.*

STEWART. HOPE. 9th July 1857.

1905. CHARLES PATRICK STEWART, of the firm of Sharp, Stewart and Company, of the City of Manchester, Engineers, and DAVID GRAHAM HOPE, of the same place, Civil Engineer, for an invention for—"Improvements in the valve gear of locomotive and other engines." *Letters Patent sealed.*

SWAN. 9th July 1857.

1906. JOHN HOLLEY SWAN, Engineer, 66, Royal Exchange Square, Glasgow, in the County of Lanark, for an invention for—"Improved machinery and steam-engine for crushing quartz and other hard substances, and for amalgamating." *Letters Patent sealed.*

MAC NICOL. 9th July 1857.

1907. JOHN DUNSMORE MAC NICOL, of the City of Manchester, in the County of Lancaster, Designer, for an invention for—"Improvements in machinery or apparatus for cylinder printing." *Provisional protection only.*

DE CLERVILLE. 9th July 1857.

1908. JOHN JULIUS CLERO DE CLERVILLE, of Newman Street, in the County of Middlesex, for an invention for—"Improvements in the manufacture of oil-cloth and imitation leather."—*A communication from Felix Abate, of Paris.—Letters Patent sealed.*

RUSSELL. 9th July 1857.

1909. JOHN SCOTT RUSSELL, of Millwall, in the County of Middlesex, for an invention for—"Improvements in apparatus and slips for moving ships and vessels out of and into the water." *Letters Patent sealed.*

BROOMAN. 9th July 1857.

1910. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, E.C., Editor of the Mechanics' Magazine, and Patent Agent, for an invention for—"An improvement in propelling ships, boats and other vessels."—*A communication.* *Provisional protection only.*

LOGIE. 9th July 1857.

1911. COSMO LOGIE, of the Royal Horse Guards, Surgeon, for an invention for—"An improvement in or addition to fire-arms." *Provisional protection only.*

MANN. 9th July 1857.

1912. WILLIAM MANN, Engineer of the City of London Gas Works, for an invention for—"An improved arrangement of steam-boiler gauge cocks and registering apparatus connected therewith." *Letters Patent sealed.*

DELMAS. 9th July 1857.

1913. FLORENTIN DELMAS, of Paris, in the Empire of France, Civil Engineer, for an invention for—"Improvements in ventilating ships, mines and other places." *Provisional protection only.*

LEWIS. PARRISH. ROBERTS. 9th July 1857.

1914. THOMAS LEWIS, of Birmingham, in the County of Warwick, Mining Engineer, HENRY PARRISH, of the same place, Gentleman, and ROBERT MARTIN ROBERTS, of Dolgelly, in the County of Merioneth, Mining Captain, for an invention for—"Improvements in the separation and extraction of copper from its ores." *Letters Patent sealed.*

JOHNSON. 9th July 1857.

1915. WILLIAM JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of 166, Buchanan Street, in the City of Glasgow, North Britain, Civil Engineer, for an invention for—"Improvements in capstans."—*A communication from —— Muirhead, of Halifax, Nova Scotia, Engineer.* *Letters Patent sealed.*

EASTWOOD. 10th July 1857.

1916. EASTWOOD EASTWOOD, of Burnley, in the County of Lancaster, Mechanic, for an invention for—"Improvements in picker bands for looms." *Provisional protection only.*

DE BERGUE. 10th July 1857.

1917. CHARLES DE BERGUE, of Dowgate Hill, in the City of London, Engineer, for an invention for—"An improvement or improvements in the manufacture of apparatus for condensing and cooling purposes." *Provisional protection only.*

VICARS. VICARS. ASHMORE. SMITH. 10th July 1857.

1918. THOMAS VICARS, senior, THOMAS VICARS, junior, and THOMAS ASHMORE, of Liverpool, Engineers, and JAMES SMITH, of the same place, in the County Palatine of Lancaster, Baker, for an invention for—"Improvements in the manufacture of bread, biscuits and like articles, and in the machinery connected therewith." *Letters Patent sealed.*

PULVERMACHER. 10th July 1857.

1919. ISAC LOUIS PULVERMACHER, of Paris, in the Empire of France, Engineer, for an invention for—"Improvements in pipes or tubes for smoking." *Letters Patent sealed.*

HOPE. 10th July 1857.

1920. DAVID HOPE, of Bishop's Auckland, in the County of Durham, Engineer, for an invention for—"An improved method of preventing one train from running into another, on railways." *Provisional protection only.*

KNOWLES. 10th July 1857.

1921. SIR FRANCIS CHARLES KNOWLES, of Lovell Hill, in the County of Berks, Baronet, for an invention for—"Improvements in the manufacture of iron." *Letters Patent sealed.*

BROOMAN, 10th July 1857.

1922. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, E.C., Editor of the Mechanics' Magazine, and Patent Agent, for an invention for—"A method of and apparatuses for scouring or extracting oil and grease from wools and woollen fabrics, and for extracting gum and gummy matter from silk."—*A communication.* *Letters Patent sealed.*

GILL. 10th July 1857.

1923. JOHN GILL, of Newtyle, in the County of Forfar, North Britain, Draper, for an invention for—"Improvements in reaping-machines." *Letters Patent sealed.*

NEWTON. 10th July 1857.

1924. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in the construction of furnaces and steam-boilers."—*A communication from Léon Isidore Molinos, and Charles Pronnier, Engineers, of Paris.* *Letters Patent sealed.*

MOON. BELT. EWBANK. 10th July 1857.

1925. JAMES MOON, of Malton, in the North Riding of the County of York, ROBERT BELT, and GEORGE EWBANK, both of Lutton, in the East Riding of the County of York, for an invention for—"An improved agricultural implement." *Provisional protection only.*

SMITH. 10th July 1857.

1926. WILLIAM SMITH, of Little Woolstone, near Fenny Stratford, in the County of Bucks, Farmer, for an invention for—"Improvements in steam-engines for giving motion to agricultural implements." *Letters Patent sealed.*

WOODMAN. 10th July 1857.

1927. WEBSTER WOODMAN, of No. 14, Boulevart Montmartre, in the City of Paris, Gentleman, for an invention for—"Improvements in railroad wheels."—*A communication from J. W. Alden, of New York.* *Letters Patent sealed.*

DYSON. HARRISON. 10th July 1857.

1928. GEORGE DYSON, and THOMAS HARRISON, both of Tudhoe Iron Works, near Ferry Hill, in the County of Durham, for an invention for—"An improvement or improvements in steam-engines." *Provisional protection only.*

HORNSBY. 10th July 1857.

1929. RICHARD HORNSBY, Junior, of Spittlegate, near Grantham, in the County of Lincoln, for an invention for—"Improvements in apparatus for hummelling, removing the husk from and cleansing grain." *Letters Patent sealed.*

CHANTER. ANNAN. 10th July 1857.

1930. JOHN CHANTER, and DAVID ANNAN, of Bow, in the County of Middlesex, for an invention for—"Improvements in furnaces when moveable bars are used." *Letters Patent sealed.*

PRIMARD. 11th July 1857.

1931. EDOUARD PRIMARD, of Paris, (France,) Civil Engineer, for an invention for —"Improvements in treating auriferous, argentiferous, or other metallic ores." *Letters Patent sealed.*

SMITH. TALBOT. 11th July 1857.

1932. WILLIAM JOHN THOMAS SMITH, of Birmingham, in the County of Warwick, Manufacturer, and FREDERICK TALBOT, of Birmingham aforesaid, Factor, for an invention for—"An improvement or improvements in hair pins."—*Letters Patent sealed.*

RUGG. 11th July 1857.

1933. DATUS ENSIGN RUGG, of the City and State of New York, United States of America, for an invention for—"An improvement in water gauges for steam-boilers." *Letters Patent sealed.*

LOACH. SALT. DAY. 11th July 1857.

1934. JOHN LOACH, Japanner, of Birmingham, in the County of Warwick, and JAMES JONES SALT, and BURTON DAY, trading as Copartners, under the style or firm of Salt and Day, Merchants and Manufacturers, also of Birmingham as aforesaid, for an invention for—"Certain improvements in metallic air-tight coffins, as also in the mode of covering, finishing, and ornamenting such like coffins." *Letters Patent sealed.*

BUROT. 11th July 1857.

1935. FRANÇOIS BUROT, Merchant, of Rue Neuve des Mathurins, 57, in the City of Paris, representing the firm of Burot, fils, ainé, & C^e^, Rue Neuve des Mathurins, No. 57, in the City of Paris, (France,) for an invention for—"A new process for gilding and plating over silk, cotton, wool, and all other textiles and fibrous matters." *Letters Patent sealed.*

FONTAINEMOREAU. 11th July 1857.

1936. PETER ARMAND LE COMTE DE FONTAINEMOREAU, Patent Agent, of 39, Rue de l'Echiquier, Paris, and 4, South Street, Finsbury, London, for an invention for —"An improved shoe and boot scraper or cleaner."—*A communication.* *Provisional protection only.*

DENIZOT. FLIPPS. 11th July 1857.

1937. BERNARD DENIZOT, Civil Engineer, and CHARLES FLIPPS, Gentleman, of No. 39, Rue de l'Echiquier, Paris, and 4, South Street, Finsbury, London, for an invention for—"An improvement in the construction of railway breaks." *Provisional protection only.*

LAMY. 11th July 1857.

1938. HIPPOLYTE LAMY, of Paris, (Empire of France,) and of 45, Essex Street, Strand, London, for an invention for—"An engine or apparatus for obtaining motive-power by an improved method of applying steam, gas, or heated air." *Letters Patent sealed.*

DÉPINAY-PREHAMON. 11th July 1857.

1939. ALEXANDRE AMAND NOËL DÉPINAY-PREHAMON, of Paris, in the Empire of France, Notary, for an invention for—"Improvements in windmills." *Provisional protection only.*

M^c^KAY. OSMAN. 13th July 1857.

1940. MURDOCH M^c^KAY, and HENRY FORFAR OSMAN, both of 33, Essex Street, Strand, London, for an invention for—"Improvements in apparatus for securing the points of railway switches." *Letters Patent sealed.*

STARR. 13th July 1857.

1941. HENRY STARR, of Liverpool, in the County of Lancaster, Merchant, for an invention for—"Improvements in hinges."—*A communication.* *Letters Patent sealed.*

HINKS. DAY. 13th July 1857.

1942. JOSEPH LESTER HINKS, of Birmingham, in the County of Warwick, Manufacturer, and JOHN ROCK DAY, of Birmingham aforesaid, Machinist, for an invention for—"Improvements in locks and latches, and in attaching lock and latch knobs to spindles." *Provisional protection only.*

WILLIAMS. WILLIAMS. 13th July 1857.

1943. NICHOLAS WILLIAMS, and THOMAS WILLIAMS, Smiths and Iron Founders, both of Helston Foundry, Helston, in the County of Cornwall, for an invention for—"Improvements in the form and arrangement of the driving gear of thrashing-machines, and in the form and mode of applying the straw shakers to such said machines." *Letters Patent sealed.*

SMITH. 13th July 1857.

1944. PETER RECTOR SMITH, of New York, in the United States of America, M.D., for an invention for—"Improvements in fire-arms and ordnance." *Letters Patent sealed.*

WHITEHEAD. 13th July 1857.

1945. JAMES HEYWOOD WHITEHEAD, of the Royal George Mills, in the Parish of Saddleworth, in the County of York, Esquire, for an invention for—"Improvements in milling endless cloths." *Letters Patent sealed.*

NEWTON. 13th July 1857.

1946. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane in the County of Middlesex, Civil Engineer, for an invention for—"Improved machinery for converting old rope or cordage into tow."—*A communication from Messieurs Goulley and Company, of Honfleur, in the Empire of France.* *Letters Patent sealed.*

NEWTON. 13th July 1857.

1947. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in the manufacture or reduction of platinum."—*A communication from Jules Henry Debray, of Paris, Chemist.* *Letters Patent sealed.*

NEWTON. 13th July 1857.

1948. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"An improved construction of portable railway for steam traction engines on common roads or land."—*A communication.* *Letters Patent sealed.*

NEWTON. 13th July 1857.

1949. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"An improved mode of preventing incrustations in steam-boilers."—*A communication.* *Letters Patent sealed.*

NYE. 14th July 1857.

1950. SAMUEL NYE, of No. 79, Wardour Street, in the County of Middlesex, for an invention for—"Improvements in chaff-cutting machines."—*Letters Patent sealed.*

URRY. 14th July 1857.

1951. BARNABAS URRY, of the Vectis Works, Newport, Isle of Wight, in the County of Hampshire, Engineer, for an invention for—"Improvements in seed drills." *Provisional protection only.*

WYATT. 14th July 1857.

1952. WILLIAM WYATT, of Bury St. Edmunds, in the County of Suffolk, Farmer, for an invention for—"Improvements in haymaking machines." *Provisional protection only.*

CALVERT. LOWE. 14th July 1857.

1953. FREDERICK CRACE CALVERT, of the City of Manchester, Professor of Chemistry, and CHARLES LOWE, of Halifax, in the County of York, Analytical Chemist, for an invention for—"Improvements in the manufacture of size." *Letters Patent sealed.*

HEBBLETHWAITE. SHUTTLEWORTH. TASKER. 14th July 1857.

1954. HENRY HEBBLETHWAITE, and WILLIAM SHUTTLEWORTH, of the firm of John Sheard and Company, Carpet Manufacturers, and WILLIAM TASKER, Mechanist and Patent Agent, all of Halifax, in the County of York, for an invention for—"Improvements in preparing yarns for and in machinery or apparatus employed in printing yarns for carpets or other similar fabrics." *Letters Patent sealed.*

WEBSTER. 14th July 1857.

1955. JAMES WEBSTER, of Birmingham, in the County of Warwick, Engineer, for an invention for—"An improvement or improvements in safety valves." *Letters Patent sealed.*

CLARK. 14th July 1857.

1956. WILLIAM STETTINIUS CLARK, of the American Patent Agency, 133, High Holborn, in the County of Middlesex, for an invention for—"Improvements in machines for harvesting grain and grass crops, and in the automatic delivery thereof."—*A communication from Alexander Hamilton Caryl, of Sandusky, Ohio, United States of America.* *Letters Patent sealed.*

KINGSLEY. 14th July 1857.

1957. JEFFRIES KINGSLEY, of 15, Bedford Square, in the County of Middlesex, Lieutenant H. P. 3 Dragoons, for an invention for—"Obtaining or applying a primary motive-power, namely, the water of a river, which causes a vacuum in an exhausting receiver which may be transferred by tubes to other machines, causing water and ores to be raised from mines, likewise causing the steam-engine to be superseded, water being cheaper than coals." *Provisional protection only.*

SMITH. SMITH. 14th July 1857.

1958. HUGH SMITH, and FREDERICK MOORE SMITH, both of Porchester Square, in the County of Middlesex, Gentlemen, for an invention for—"An improvement in fire-arms." *Provisional protection only.*

HARDING. 14th July 1857.

1959. GUSTAVUS PALMER HARDING, of Jewin Street, in the City of London, Manufacturer, for an invention for—"Improvements in the manufacture of hats, caps and other coverings for the head." *Letters Patent sealed.*

ASHTON. 14th July 1857.

1960. THOMAS ASHTON, of Abbey Mills, in the Parish of Morpeth, in the County of Northumberland, Woollen Manufacturer, for an invention for—"An improvement in teasing, scribbling, carding, and combing engines." *Letters Patent sealed.*

SMITH. 14th July 1857.

1961. THOMAS MOSDELL SMITH, of Hammersmith, for an invention for—"Improvements in the preparation of materials applicable to the manufacture of candles." *Letters Patent sealed.*

GAUNTLETT. 14th July 1857.

1962. WILLIAM HENRY GAUNTLETT, of Middlesbro'-on-Tees, for an invention for—"Improvements in thermometric apparatus." *Letters Patent sealed.*

MOULIN.
15th July 1857.

1963. FRANÇOIS MOULIN, of Lyons, in the Empire of France, Mechanician, for an invention for—"A new improved railway break." *Letters Patent sealed.*

LOCKE.
15th July 1857.

1964. WILLIAM JOHN LOCKE, of Edgeley, in the County of Cheshire, Draper, for an invention for—"Constructing an improved oil can." *Letters Patent sealed.*

QUICK.
15th July 1857.

1965. JOHN HENRY QUICK, of Pimlico, in the City of Westminster, in the County of Middlesex, Hat Manufacturer, for an invention for—"An improved hat." *Provisional protection only.*

BERTIN.
15th July 1857.

1966. EDMOND BERTIN, of Aldgate, in the City of London, Gentleman, for an invention for—"A new manufacture of fibre suitable for the purposes to which hemp and flax are usually applied." *Letters Patent sealed.*

BROOMAN.
15th July 1857.

1967. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, E.C., Editor of the Mechanics' Magazine, and Patent Agent, for an invention for—"Improvements in the manufacture of hats, bonnets and other coverings for the head."—*A communication from Monsieur Laporte."* *Provisional protection only.*

WALKER.
CLACHAN.
15th July 1857.

1968. GAVIN WALKER, of Glasgow, in the County of Lanark, North Britain, Manufacturer, and JAMES CLACHAN, of the same place, Manager, for an invention for—"Improvements in looms for weaving." *Letters Patent sealed.*

JOHNSON.
15th July 1857.

1969. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of 166, Buchanan Street, in the City of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in machinery or apparatus for marking or imprinting characters on paper and other fabrics."—*A communication from S. W. Francis, of New York, in the United States of America.* *Letters Patent sealed.*

BLANDFORD.
15th July 1857.

1970. HENRY BLANDFORD, of Sandridge, Bromham, near Chippenham, in the County of Wilts, Farmer, for an invention for—"An improved combination of apparatus for distributing manure." *Letters Patent sealed.*

JOHNSON.
15th July 1857.

1971. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of 166, Buchanan Street, in the City of Glasgow, North Britain, Gentlemen, for an invention for—"Improvements in sewing-machines."—*A communication from J. E. A. Gibbs, of Virginia, United States of America."* *Letters Patent sealed.*

JONES.
16th July 1857.

1972. WRIGHT JONES, of Pendleton, near Manchester, in the County of Lancaster, Brass and Iron Founder, for an invention for—"Improvements in moulding for casting metals." *Letters Patent sealed.*

WRIGHT.
16th July 1857.

1973. JAMES WRIGHT, of 10, Alfred Place, Newington Causeway, Southwark, County of Surrey, Civil Engineer, for an invention for—"Improvements in the manufacture of gas." *Letters Patent sealed.*

COX.
16th July 1857.

1974. JOHN COX, of Gorgie Mills, in the County of Edinburgh, Glue Maker, for an invention for—"Improvements in apparatuses to enable persons to progress in swimming." *Letters Patent sealed.*

GILBEE.
16th July 1857.

1975. WILLIAM ARMAND GILBEE, of No. 4, South Street, Finsbury, London, Patent Agent, for an invention for—"Improvements in the treatment of fatty matters for the manufacture of candles and night lights."—*A communication.* *Provisional protection only.*

DEFIS.
16th July 1857.

1976. GUILLAUME DEFIS, of Marseille, France, and 4, South Street, Finsbury, London, for an invention for—"Certain improvements in preventing incrustation in boilers." *Letters Patent sealed.*

MATHEWS.
16th July 1857.

1977. GEORGE SAMUEL MATHEWS, of 61, Wardour Street, in the County of Middlesex, of Summer Hill Parade, in the City of Dublin, Gentleman, for an invention for—"Improvements in railway breaks." *Letters Patent sealed.*

VASSEROT.
17th July 1857.

1978. CHARLES FRÉDERIC VASSEROT, of 45, Essex Street, Strand, London, Patent Agent, for an invention for—"An apparatus for measuring and registering the flow of liquids."—*A communication from F. F. Benvenuti, of Paris, France.* *Provisional protection only.*

AVERY.
17th July 1857.

1979. JOHN AVERY, of 32, Essex Street, Strand, in the County of Middlesex, Patent Agent, for an invention for—"Improvements in steam-engines."—*A communication from Thomas Maskell, of Franklin, State of Louisiana, United States of America.* *Provisional protection only.*

BARLOW.
17th July 1857.

1980. CHARLES BARLOW, of the Office for Patents, 89, Chancery Lane, London, for an invention for—" An improved brick-making machine."—*A communication.*
Provisional protection only.

RUSSELL.
SPRATT.
PRESS.
17th July 1857.

1981. JOSEPH RUSSELL, of Woodlands Road, Blackheath, Kent, Gentleman, HENRY WILLIAM SPRATT, of Granville Park, Lewisham, Kent, Architect, and WILLIAM PRESS, of 16, Stepney Causeway, Commercial Road East, Middlesex, Engineer, for an invention for—" A certain new method or methods or new improvement or improvements in the construction, application, and use of machinery for propelling boats, ships, or vessels of any class or denomination." *Letters Patent sealed.*

BARWELL.
17th July 1857.

1982. WILLIAM BARWELL, of Birmingham, in the County of Warwick, Metal Dealer, for an invention for—" An improvement or improvements in casting metals."
Provisional protection only.

GRIFFITHS.
17th July 1857.

1983. THOMAS FOXALL GRIFFITHS, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—" An improvement or improvements in shaping metals." *Letters Patent sealed.*

JOHNSON.
17th July 1857.

1984. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of 166, Buchanan Street, in the City of Glasgow, North Britain, Gentleman, for an invention for—" Improvements in steam-boilers."—*A communication.* *Letters Patent sealed.*

CLUNES.
MACINTOSH.
17th July 1857.

1985. THOMAS CLUNES, of Aberdeen, in the County of Aberdeen, North Britain, Plumber, and JOHN MACINTOSH, of the same place, Engineer, for an invention for —" Improvements in machinery or apparatus for bottling or supplying vessels with liquids." *Letters Patent sealed.*

UPWARD.
17th July 1857.

1986. ALFRED UPWARD, of Duncan Terrace, Islington, in the County of Middlesex, Gas Engineer, for an invention for—" An improvement in the manufacture of coke." *Letters Patent sealed.*

RAMSDEN.
17th July 1857.

1987. SAMUEL RAMSDEN, of Hunslet, near Leeds, in the County of York, Engine Smith, for an invention for—" Improvements in the construction and fixing of window sashes." *Letters Patent sealed.*

ROBERTS.
DALE.
17th July 1857.

1988. THOMAS ROBERTS, and JOHN DALE, of Manchester, in the County of Lancaster, Manufacturing Chemists, for an invention for—" Improvements in obtaining pigments from dye woods, and in the application of a pigment to printing paper hangings." *Letters Patent sealed.*

LACY.
HOMERSHAM.
18th July 1857.

1989. AUGUSTUS DACRE LACY, of Hall House, Knayton, in the County of York, Gentleman, and WILLIAM COLLETT HOMERSHAM, of Adelphi Terrace, in the County of Middlesex, Civil Engineer, for an invention for—" Improvements in machinery for ploughing and cultivating land by steam or other suitable motive-power." *Letters Patent sealed.*

AUSTIN.
18th July 1857.

1990. JAMES AUSTIN, of Millisle Mills, Donaghadee, in the County of Down, Ireland, Bookkeeper, for an invention for—" Improvements in machinery or apparatus for ploughing or cultivating land." *Provisional protection only.*

CLIFF.
18th July 1857.

1991. WILLIAM CLIFF, of the Queen's Hotel, St. Martin's-le-Grand, in the City of London, for an invention for—" A new system of applying the air from the bellows and other means to the forge."—*A communication.* *Letters Patent sealed.*

WAINWRIGHT.
BRADBURY.
18th July 1857.

1992. GEORGE JAMES WAINWRIGHT, and CHARLES TIMOTHY BRADBURY, of Dukinfield, in the County of Chester, Cotton Spinners, for an invention for—" Improvements in apparatus for diminishing the amount of waste in the use of cops for manufacturing purposes." *Letters Patent sealed.*

NEWTON.
18th July 1857.

1993. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—" Improved machinery for cutting metals or other hard substances."—*A communication.*
Letters Patent sealed.

NEWTON.
18th July 1857.

1994. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—" An improved construction of combined steam-boiler and radiator for warming apartments or buildings."—*A communication.* *Letters Patent sealed.*

WHYTE. 20th July 1857.

1995. ALEXANDER WHYTE, Warehouseman, residing at 66, Lorn Place, Dumbarton Road, Glasgow, in the County of Lanark, Scotland, for an invention for—"An improved mechanical arrangement for weaving." *Provisional protection only.*

BOLTON. 20th July 1857.

1996. RICHARD BOLTON, of Blackburn, in the County of Lancaster, Overlooker of Power Looms, for an invention for—"An improved mode of weighting the yarn beam in looms used in the manufacture of cloth by steam power." *Letters Patent sealed.*

NEWBERY. 20th July 1857.

1997. GEORGE JOHN NEWBERY, of Straitsmouth, Greenwich, in the County of Kent, Artist, for an invention for—"Improvements in window-blinds." *Letters Patent sealed.*

HOLMES. 20th July 1857.

1998. FREDERICK HALL HOLMES, of Blackwall, in the County of Middlesex, Analytical Chemist, for an invention for—"Improvements in magneto-electric and electro-magnetic machines." *Letters Patent sealed.*

SMITH. 20th July 1857.

1999. HUGH SMITH, of Porchester Square, in the County of Middlesex, Gentleman, for an invention for—"An improved agricultural implement for pulverizing and cleansing land." *Provisional protection only.*

BROOMAN. 20th July 1857.

2000. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, E.C., Editor of the Mechanics' Magazine, and Patent Agent, for an invention for—"Improvements in the manufacture of pipes and tubes."—*A communication.* *Provisional protection only.*

RESTELL. 20th July 1857.

2001. THOMAS RESTELL, of New Kent Road, in the County of Surrey, Engineer, for an invention for—"Improvements in breech loading fire-arms, and in fastening the barrels of fire-arms to their stocks." *Provisional protection only.*

NEWTON. 20th July 1857.

2002. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improved machinery for feeding flour and mixing and kneading dough, for the making of bread and biscuits.—*A communication.* *Letters Patent sealed.*

NEWTON. 20th July 1857.

2003. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in reaping and mowing machines."—*A communication.* *Letters Patent sealed.*

MARY'ON. 20th July 1857.

2004. ROBERT JAMES MARY'ON, Mechanician, of No. 40, Hooper Street, Westminster Road, Lambeth, in the County of Surrey, for an invention for—"Improvements in the construction of propellers and in arrangements of engines for working the same, for propulsion of ships or vessels." *Provisional protection only.*

COWHAM. 20th July 1857.

2005. HENRY VENNOR COWHAM, of Skeffling, in the County of York, for an invention for—"Improvements in machinery for breaking or pulverising land." *Letters Patent sealed.*

CONWAY. 20th July 1857.

2006. JOSEPH CONWAY, of the Margam Copper Works, Taiback, South Wales, for an invention for—"Improvements in the production of copper rollers for printing calico and other fabrics." *Letters Patent sealed.*

BUTLER. 20th July 1857.

2007. SAMUEL BUTLER, of Nottingham, Lace Manufacturer, for an invention for —"Improvements in the manufacture of ornamental bobbin net or twist lace." *Letters Patent sealed.*

ARNALL. GREENHOW. 21st July 1857.

2008. JOSIAH CLAUGHTON ARNALL, and GEORGE GREENHOW, of the Yorkshire Glass Bottle Company, Ferry Bridge, near Pontefract, in the County of York, for an invention for—"Improvements in the manufacture of glass bottles and jars, and in the apparatus connected therewith." *Provisional protection only.*

PARSONS. 21st July 1857.

2009. GEORGE PARSONS, of Martoch, in the County of Somerset, Agricultural Implement Maker, for an invention for—"Improvements in thrashing-machines known as combined thrashing-machines." *Provisional protection only.*

WARNER. 21st July 1857.

2010. FREDERICK WARNER, of Jewin Crescent, Cripplegate, for an invention for "Improvements in ball and other cocks and valves." *Letters Patent sealed.*

SCOTT. 21st July 1857.

2011. ANDREW SCOTT, of 15, Charlotte Terrace, Copenhagen Street, Islington, for an invention for—"Improvements in stops for gates and doors." *Letters Patent sealed.*

NEWTON. 21st July 1857.

2012. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improved machinery for manufacturing screws or screw caps, of sheet metal."—*A communication.*
Letters Patent sealed.

MOHR. 21st July 1857.

2013. JOSEF MOHR, of Vienna, in the Empire of Austria, Cotton Manufacturer, for an invention for—"Improved machinery for propelling vessels."
Provisional protection only.

ARMSTRONG. 22nd July 1857.

2014. WILLIAM GEORGE ARMSTRONG, of Newcastle-upon-Tyne, in the County of Northumberland, Civil Engineer, for an invention for—"Improvements in the mode of adjusting ordnance for fire by night or day." *Provisional protection only.*

HALL. 22nd July 1857.

2015. JAMES HALL, of Lancaster, in the County of Lancaster, Engineer, for an invention for—"Improvements in the mode of preventing incrustation in boilers."
Letters Patent sealed.

NEWTON. 22nd July 1857.

2016. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"Improved machinery for grinding and polishing stone, glass and other materials."—*A communication.* *Letters Patent sealed.*

KIRBY. 22nd July 1857.

2017. JOSEPH KIRBY, of Bodicote, Oxon, for an invention for—"Improvements in hay and other rakes." *Letters Patent sealed.*

DOULTON. 22nd July 1857.

2018. HENRY DOULTON, of Lambeth, in the County of Surrey, for an invention for—"Improvements in the manufacture of earthenware drain and other pipes."
Letters Patent sealed.

M^cKAY. ROSE. 22nd July 1857.

2019. MURDOCH M^cKAY, of Hackney, Gentleman, and LEWIS ROSE, of Holborn, London, Gentleman, for an invention for—"Improvements in apparatus to be used in washing and scouring household linen and other textile fabrics."
Provisional protection only.

KING. 23rd July 1857.

2020. JOHN KING, of Cannon Street, in the City of London, for an invention for—"Improvements in the preparation of peat and peat coke or charcoal, and in machinery or apparatus for that purpose."—*A communication.*
Provisional protection only.

CLARK. BERTRAM. 23rd July 1857.

2021. MOSES CLARK, of St. Mary Cray, in the County of Kent, Engineer, and GEORGE BERTRAM, of Edinburgh, in the County of Midlothian, North Britain, Engineer, for an invention for—"Improvements in machinery or apparatus for cutting paper." *Letters Patent sealed.*

DEAKIN. PHILLIPS. 23rd July 1857.

2022. WILLIAM DEAKIN, Tool Maker, and WILLIAM PHILLIPS, Strip steel Roller, both of Birmingham, in the County of Warwick, for an invention for—"Certain improvements in the manufacture of metallic pens and penholders."
Letters Patent sealed.

BOUVERT. PASCAL. 23rd July 1857.

2023. JEAN JACQUES BOUVERT, Civil Engineer, and FRANÇOIS ISIDORE JEAN PASCAL, Solicitor, both of Paris, in the Empire of France, for an invention for—"Improvements in smoke preventing apparatus."
Complete specification; Letters Patent sealed.

VASSEROT. 23rd July 1857.

2024. CHARLES FRÉDERIC VASSEROT, of 45, Essex Street, Strand, London, Patent Agent, for an invention for—"An apparatus for moulding candles."—*A communication from François Paul Morane, of Paris, in the Empire of France.*
Letters Patent sealed.

HUDSON. CATLOW. 23rd July 1857.

2025. WILLIAM HUDSON, of Burnley, in the County of Lancaster, Machinist, and CHRISTOPHER CATLOW, of Clitheroe, in the same County, Overlooker, for an invention for—"Certain improvements in looms for weaving."—*Letters Patent sealed.*

WILSON. 23rd July 1857.

2026. EDWARD WILSON, of Worcester, in the County of Worcester, Engineer, for an invention for—"An improved method of consuming smoke."
Letters Patent sealed.

NORRIS. 23rd July 1857.

2027. CHARLES NORRIS, of the Calder Chemical Works, Sowerby Bridge, in the Parish of Halifax, in the County of York, Manufacturing Chemist, for an invention for—"Improvements in the manufacture of sulphate of alumina, and the application of the same so manufactured in dyeing, printing, paper making, and such like purposes." *Letters Patent sealed.*

NEEDHAM. 24th July 1857.

2028. JOSEPH NEEDHAM, of Piccadilly, in the County of Middlesex, Gun Manufacturer, for an invention for—"Improvements in fountain pens." *Letters Patent sealed.*

BURROWS. 24th July 1857.

2029. JAMES BURROWS, of Wigan, in the County of Lancaster, Engineer, for an invention for—"Certain improvements in steam-engines." *Letters Patent sealed.*

WILLIAMS. 24th July 1857.

2030. THOMAS WILLIAMS, of Aberdaron, in the County of Carnarvon, North Wales, Engineer, for an invention for—"An improvement in the construction of ships or vessels whereby their draught may be regulated." *Provisional protection only.*

BENNETT. 25th July 1857.

2031. JOSEPH BENNETT, of Pimlico, in the City of Westminster, Contractor, for an invention for—"Improvements in boring tools for wells, shafts and like purposes." *Provisional protection only.*

JOHNSON. 25th July 1857.

2032. WILLIAM JOHNSON, of Stockport, in the County of Lancaster, Factory Operative, for an invention for—"Improvements in looms for weaving." *Letters Patent sealed.*

COLLINS. 25th July 1857.

2033. JOHN SCOTT COLLINS, of Liverpool, in the County of Lancaster, Sail Maker and Ship Chandler, for an invention for—"Improvements in the reefing and furling of ships' and other vessels' sails, and in the manufacture of the same." *Letters Patent sealed.*

SCHÖNEMANN. 25th July 1857.

2034. JULIUS SCHÖNEMANN, of 89, Portland Street, Portland Place, in the County of Middlesex, for an invention for—"Improvements in the construction of weighing machines."—*A communication.* *Letters Patent sealed.*

OETZMANN. PLUMB. 25th July 1857.

2035. FREDERICK OETZMANN, and THOMAS LUIS PLUMB, both of 56, Great Russell Street, Bloomsbury, in the County of Middlesex, Pianoforte Manufacturers, for an invention for—"Improvements in upright pianoforte actions." *Letters Patent sealed.*

GEDGE. 27th July 1857.

2036. JOHN GEDGE, of No. 4, Wellington Street South, Strand, in the County of Middlesex, Patent Agent, for an invention for—"Improvements in doubling-machines."—*A communication from Galliard Collé, of Fouencamps, in the Empire of France.* *Provisional protection only.*

WILLIAMS. 27th July 1857.

2037. WILLIAM WILLIAMS, of the Parish of Dale, in the County of Pembroke, Engineer and Contractor, for an invention for—"Improved graving slips for the repairing of ships." *Provisional protection only.*

WILLIAMSON. 27th July 1857.

2038. WILLIAM BLAKE WILLIAMSON, of Bradford, in the County of York, Commission Agent, for an invention for—"Improvements in looms employed for weaving textile fabrics and fibrous materials." *Letters Patent sealed.*

FRIEND. 27th July 1857.

2039. JOHN WALTER FRIEND, of Freemantle, Southampton, Chronometer Maker, for an invention for—"An improved meter for registering the flow of water and other liquids." *Provisional protection only.*

BROOMAN. 27th July 1857.

2040. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, E.C., Editor of the Mechanics' Magazine, and Patent Agent, for an invention for—"Improvements in motive power engines."—*A communication from P. and L. Larochette, of Paris.* *Letters Patent sealed.*

SAINTARD. 27th July 1857.

2041. NICOLAS SAINTARD, of Paris, in the French Empire, Doctor, for an invention for—"An improved break for railway and other carriages."—*Letters Patent sealed.*

MORTERA. 27th July 1857.

2042. AUGUSTIN MORTERA, of Paris, in the French Empire, Civil Engineer, for an invention for—"Improvements in coupling carriages on railways." *Provisional protection only.*

RIDSDALE. 27th July 1857.

2043. JOSEPH RIDSDALE, of the Minories, in the City of London, Nautical Brass Founder, for an invention for—"An improvement in ships' scuttles." *Provisional protection only.*

ANDERSON. 27th July 1857.

2044. FREDERICK BONAPARTE ANDERSON, of 56, High Street, Gravesend, Kent, Spectacle Manufacturer, for an invention for—"A mechanical slow match for submarine or other blasting and mining operations." *Provisional protection only.*

RICHARDSON. 27th July 1857.

2045. BENJAMIN RICHARDSON, of Wordsley Flint Glass Works, near Stourbridge, for an invention for—"An improvement in the manufacture of articles in glass so as to produce peculiar ornamental effects.' *Letters Patent sealed.*

BOUSFIELD. 27th July 1857.

2046. GEORGE TOMLINSON BOUSFIELD, of Loughborough Park, Brixton, in the County of Surrey, for an invention for—"Improvements in apparatus for retarding and stopping carriages on railways."—*A communication.* *Letters Patent sealed.*

BENNETT. 27th July 1857.

2047. JAMES HENRY BENNETT, of Birmingham, in the County of Warwick, Mechanic, for an invention for—"Improvements in engines to be worked by atmospheric pressure or steam or by both in combination, and also in steam generators to be used therewith." *Provisional protection only.*

DANVERS. BILLINGS. 27th July 1857.

2048. PATRICK DANVERS, of the City and State of New York, and GEORGE WHITFIELD BILLINGS, of Plainfield, in the County of Union, State of New Jersey, United States of America, for an invention for—"An improved means for rolling hoops and wheel tyres." *Provisional protection only.*

HIGGIN. 28th July 1857.

2049. JAMES HIGGIN, of the City of Manchester, in the County of Lancaster, Manufacturing Chemist, for an invention for—"An improved method of drying garancine or other moist substances." *Provisional protection only.*

CLARK. 28th July 1857.

2050. WILLIAM STETTINIUS CLARK, of 133, High Holborn, in the County of Middlesex, for an invention for—"Improvements in automatic feeding printing-press." —*A communication from S. W. Wood and H. A. Bills, of the United States of America.* *Letters Patent sealed.*

HALLEN. 28th July 1857.

2051. EDWARD HALLEN, of Cornwall Road, Lambeth, in the County of Surrey, Civil Engineer, for an invention for—"Improvements in the construction of bedsteads and similar articles to recline or sit on." *Letters Patent sealed.*

SMITH. 28th July 1857.

2052. OCTAVIUS HENRY SMITH, of the Thames Bank Distillery, in the County of Middlesex, for an invention for—"An improvement in supplying steam to water to heat the same, and in preventing what is technically called priming of steam." *Letters Patent sealed.*

HIRST. 28th July 1857.

2053. WILLIAM HIRST, of Bath, for an invention for—"Improvements in manufacturing felted fabrics." *Letters Patent sealed.*

BOUSFIELD. 28th July 1857.

2054. GEORGE TOMLINSON BOUSFIELD, of Loughborough Park, Brixton, in the County of Surrey, for an invention for—"Improvements in apparatus for feeding water to steam-boilers."— *A communication.* *Letters Patent sealed.*

BRUNOT. 28th July 1857.

2055. PROSPER BRUNOT, of No. 37, Boulevart de Sebastopol, in the City of Paris, Merchant, for an invention for—"Improvements in springs for petticoats and other articles of dress." *Provisional protection only.*

JACKSON. 28th July 1857.

2056. ROBERT JACKSON, of Glasgow, in the County of Lanark, North Britain, Gentleman, for an invention for—"Improvements in protecting certain parts of the body from disfigurement by cutaneous diseases." *Letters Patent sealed.*

PROCTOR. 28th July 1857.

2057. WILLIAM PROCTOR, of Bristol, Manufacturing Chemist, for an invention for —"Improvements in the manufacture of sulphuric acid."—*Provisional protection only.*

BAXTER. 28th July 1857.

2058. EDWARD WILLIAM BAXTER, of Sidney Street, Mile End, in the County of Middlesex, Writer on Glass, for an invention for—"An improved mode of preparing glass labels, advertizing tablets, and ornamental devices upon glass." *Letters Patent sealed.*

DORTET. DENIS. 28th July 1857.

2059. JULES DORTET, and ANDRÉ BARTHELEMY DENIS, of Paris, in the French Empire, for an invention for—"An improved safety padlock."—*Letters Patent sealed.*

BOBŒUF. 28th July 1857.

2060. PIERRE ALEXIS FRANCISSE BOBŒUF, of Paris, in the French Empire, Chemist, for an invention for—"Improvements in preserving and otherwise treating animal and vegetable substances, and in the purification of oils employed therein, and which may be used for other purposes." *Letters Patent sealed.*

TILL. GARDINER. 28th July 1857.

2061. THOMAS TILL, of Birmingham, in the County of Warwick, Machinist, and WILLIAM GARDINER, of Birmingham aforesaid, Machinist, for an invention for— "An improvement or improvements in preventing collisions on railways." *Provisional protection only.*

CLAY. 28th July 1857.

2062. JOHN CLAY, of Birmingham, in the County of Warwick, Saddler, for an invention for—"An improvement or improvements in saddles."—*Letters Patent sealed.*

BETHELL.
28th July 1857.

2063. JOHN BETHELL, of Parliament Street, in the City of Westminster, Gentleman, for an invention for—"Improvements in the construction of ships and other vessels." *Letters Patent sealed.*

SIÈMENS.
29th July 1857.

2064. CHARLES WILLIAM SIÈMENS, of John Street, Adelphi, in the County of Middlesex, for an invention for—"Improvements in refrigerating and producing ice, and in apparatus or machinery for that purpose." *Provisional protection only.*

BERTWISTLE.
BERTWISTLE.
29th July 1857.

2065. JOHN BERTWISTLE, and DANIEL BERTWISTLE, both of Padiham, in the County of Lancaster, Joiners and Builders, for an invention for—"Improvements in ventilating." *Provisional protection only.*

KENYON.
29th July 1857.

2066. HARTLEY KENYON, of Manchester, in the County of Lancaster, Manufacturing Chemist, for an invention for—"Improvements in the treatment of certain compounds of silica, alumina, sodium or potash, and the application of such compound in the processes of printing, dyeing, tawing, paper making, or in any other process in which the alumina of commerce is employed."—*Provisional protection only.*

TAYLOR.
29th July 1857.

2067. SAMUEL LAWRENCE TAYLOR, of Cotton End, in the County of Bedford, Machinist, for an invention for—"Improvements in steam-engines." *Provisional protection only.*

JONES.
29th July 1857.

2068. WILLIAM EDWARD JONES, of Birmingham, in the County of Warwick, Engineer, for an invention for—"Improvements in the manufacture of iron plates such as boiler plates, plates for shipbuilding and other similar purposes, and also in machinery for the manufacture of such plates. *Provisional protection only.*

PLUNKETT.
29th July 1857.

2069. WILLIAM GEORGE PLUNKETT, of Belvidere Place, Dublin, Gentleman, for an invention for—"Improvements in the application of new materials to the manufacture of paper pulp, and yarn for textile fabrics, cordage, &c."—*Letters Patent sealed.*

COTTAM.
COTTAM.
29th July 1857.

2070. GEORGE HALLEN COTTAM, and HENRY RICHARD COTTAM, of the Saint Pancras Ironworks, Old Saint Pancras Road, for an invention for—"Improvements in the manufacture of children's cots and metallic bedsteads." *Provisional protection only.*

BURNETT.
29th July 1857.

2071. JONATHAN BURNETT, of 18, Side, Newcastle-upon-Tyne, for an invention for—"Improvements in the manufacture of chloride of lime or bleaching powder." *Provisional protection only.*

CLARK.
30th July 1857.

2072. WILLIAM STETTINIUS CLARK, of the American Patent Agency, 133, High Holborn, in the County of Middlesex, for an invention for—"Improvements in kegs for holding gunpowder and articles of a similar nature."—*A communication from Wilson, Green and Wilson, Delaware, United States, America.*
Provisional protection only.

PURCELL.
30th July 1857.

2073. JAMES PURCELL, of No. 15, Mount Street, Whitechapel Road, in the County of Middlesex, Tailor, for an invention for—"Improvements in attaching or securing buttons to articles of clothing." *Provisional protection only.*

COULSON.
30th July 1857.

2074. SAMUEL COULSON, of Sheffield, in the County of York, for an invention for—"Improvements in preparing solutions for coating with aluminium." *Provisional protection only.*

M'KINLEY.
WALKER.
30th July 1857.

2075. WILLIAM M'KINLEY, and ROBERT WALKER, of No. 4, Orchard Street, Paisley, for an invention for—"An improvement in the manufacture of moulds for forming the soles of boots and shoes." *Letters Patent sealed; no specification filed.*

IVORY.
30th July 1857.

2076. THOMAS IVORY, of Edinburgh, Advocate, for an invention for—"Improvements in rotary and reciprocating engines." *Letters Patent sealed.*

FREARSON.
30th July 1857.

2077. JOHN FREARSON, of Birmingham, in the County of Warwick, Mechanical Engineer, for an invention for—"Improvements in feeding, cutting, shaping, and piercing metals. *Letters Patent sealed.*

BAUERRICHTER.
GOTTGETREU.
30th July 1857.

2078. HENRY BAUERRICHTER, and GUSTAVUS GOTTGETREU, of Charterhouse Square, in the Liberty of Glasshouse Yard, in the County of Middlesex, Manufacturers, for an invention for—"Improvements in the arrangement or adaptation of stereoscopic apparatus, and in boxes or cases for containing the same."—*Provisional protection only.*

LIMBERT.
31st July 1857.

2079. JAMES ALFRED LIMBERT, Engineer, Royal Navy, for an invention for—"Improvements in marine steam-engines." *Letters Patent sealed.*

EVANS. ROSKELL. 31st July 1857.

2080. EDWARD EVANS, of Holywell, in the County of Flint, Machinist, and GEORGE POTTS ROSKELL, of Stockyn, near Holywell, in the same County, Gentleman, for an invention for—"Improvements in reaping and mowing machines." *Provisional protection only.*

COOKE. 31st July 1857.

2081. LUKE COOKE, of Blackburn, in the County of Lancaster, Manager, for an invention for—"Improvements in machinery or apparatus for preparing cotton wool or other fibrous substances to be spun." *Provisional protection only.*

BARLOW. 31st July 1857.

2082. HENRY BERNOULLI BARLOW, of the City of Manchester, Patent Agent, for an invention for—"Certain improvements in self-acting mules for spinning."—*A communication.* *Provisional protection only.*

FORSYTH. 31st July 1857.

2083. THOMAS FORSYTH, of the City of Manchester, Engineer, for an invention for—"Improvements in and applicable to slide valves for steam-engines."—*A communication.* *Letters Patent sealed.*

MOLL. 31st July 1857.

2084. ISAAC MOLL, of Cologne, Prussia, now residing at the London Bridge House Hotel, London Bridge, for an invention for—"An economical fire regulator." *Provisional protection only.*

GALY-CAZALAT. HUILLARD. 31st July 1857.

2085. ANTOINE GALY-CAZALAT, Engineer, and ADOLPHE HUILLARD, Negociant, at Paris, Town of the French Empire, for an invention for—"An improved apparatus for and mode of manufacturing sulphuret of carbon, animal charcoal, and carbonic acid." *Letters Patent sealed.*

MARKLAND. 31st July 1857.

2086. THOMAS MARKLAND, of Hyde, in the County of Chester, Warp Dresser, for an invention for—"Certain improvements in power looms for weaving. *Letters Patent sealed.*

GENHART. 31st July 1857.

2087. HENRY GENHART, Armourer, of the City of Liege, in the Kingdom of Belgium, for an invention for—"An improved apparatus for cleaning and sharpening knives, and cleaning spoons and forks." *Letters Patent sealed.*

GARNHAM. 31st July 1857.

2088. WILLIAM GARNHAM, of 5, Bedford Terrace, Upper Manor Street, Chelsea, in the County of Middlesex, for an invention for—"Improvements in pumping-apparatus." *Provisional protection only.*

INMAN. 31st July 1857.

2089. GEORGE INMAN, of Susannah Street, Poplar, in the County of Middlesex, Joiner, for an invention for—"An improved construction of locomotive engine." *Letters Patent sealed.*

BEALE. 31st July 1857.

2090. JOHN BEALE, of East Greenwich, in the County of Kent, Engineer, for an invention for—"An improved construction of rotary engine applicable for pumping and measuring fluids, or for the production of motive-power." *Letters Patent sealed.*

HARRIS. 1st August 1857.

2091. WILLIAM JEWETT HARRIS, of Greenwich, in the County of Kent, Cabinet Maker, for an invention for—"Improvements in the construction of dining and other tables." *Letters Patent sealed.*

AVRIL. 1st August 1857.

2092. CHARLES AVRIL, of Paris, France, Engraver, for an invention for—"Improvements in the mode of forming the printing surfaces of blocks, plates, cylinders, lithographic stones, or other similar bodies made use of for printing in colours." *Provisional protection only.*

COLEMAN. 1st August 1857.

2093. RICHARD COLEMAN, of Chelmsford, in the County of Essex, Agricultural Machinist, for an invention for—"Improvements in implements for ploughing, hoeing, and scarifying land, and in agricultural steam-engines used for the traction of such implements." *Provisional protection only.*

AROUX. 1st August 1857.

2094. GUILLAUME FELIX AROUX, of 39, Rue de l'Echiquier, Paris, in the Empire of France, and of 4, South Street, Finsbury, London, Gentleman, for an invention for—"Improvements in seed drills." *Letters Patent sealed.*

TATLOW. HODGKINSON. 1st August 1857.

2095. JAMES TATLOW, of Wirksworth, in the County of Derby, Manufacturer and HENRY HODGKINSON, also of Wirksworth, in the County of Derby, Engineer, for an invention for—"Certain improvements in railway breaks and signals." *Provisional protection only.*

MAW. 1st August 1857.

2096. EDWIN MAW, of the Doncaster Iron Works, Yorkshire, for an invention for—"Improvements in constructing railway crossings, points, and switches." *Letters Patent sealed.*

RICKETT. 1st August 1857.

2097. THOMAS RICKETT, of the Castle Foundry, in the County of Buckingham, for an invention for—" Improvements in implements for cultivating land."
Letters Patent sealed.

HOPKINSON. 1st August 1857.

2098. WILLIAM HOPKINSON, of Huddersfield, in the County of York, Engineer, for an invention for—" Certain improvements in steam-engines."
Letters Patent sealed.

RAMAR. 1st August 1857.

2099. AUGUSTIN JULIEN MICHEL RAMAR, of 49, Broad Street, Golden Square, for an invention for—" Improvements in ornamental and portable fountains."
Provisional protection only.

BROOMAN. 1st August 1857.

2100. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, E.C., Editor of the Mechanics' Magazine, and Patent Agent, for an invention for—" Improvements in circular sawing-machinery."—*A communication from Messrs. Boccard and Coqueval.* *Letters Patent sealed.*

PETTIT. SMITH. 1st August 1857.

2101. GEORGE BROOKS PETTIT, and HENRY FLY SMITH, of Oxford Street, in the County of Middlesex, Gas Engineers, for an invention for—" An improved cap or cover for the glasses of gas and other lights." *Letters Patent sealed.*

GRAY. 1st August 1857.

2102. JOHN GRAY, of Hill Street, Peckham, Engineer, for an invention for—" Certain improvements in doors for furnaces and fireplaces."
Provisional protection only.

DAVISON. LEE. 3rd August 1857.

2103. ROBERT DAVISON, Manager, and JAMES LEE, Overlooker, of the Lansdowne Spinning Mills and Weaving Factories, Limerick, for an invention for—" Improving the edge or selvage of linen, cotton, woollen, silk, or any other cloth or fabric while in the act of weaving." *Letters Patent sealed.*

ELCE. LEECH. 3rd August 1857.

2104. JOHN ELCE, of the City of Manchester, Machinist, and JOHN LEECH, of the same place, Mechanic, for an invention for—" Improvements in self-acting temples for looms." *Letters Patent sealed.*

DURIEZ. 4th August 1857.

2105. LÉON DURIEZ, Junior, of No. 39, Rue de l'Echiquier, Paris, in the Empire of France, and of No. 4, South Street, Finsbury, London, for an invention for—" An improved apparatus for stopping horses." *Provisional protection only.*

BIRCH. BRADBURY. 4th August 1857.

2106. RICHARD BIRCH, of Haughton, near Denton, in the County of Lancaster, Mechanic, and ROBERT BRADBURY, of the same place, Fur Cleaner, for an invention for—" Improvements in machinery and apparatus for clearing and mixing hatters' furs." *Provisional protection only.*

DUMERGUE. 4th August 1857.

2107. EUGENE ANTOINE DUMERGUE, of Paris (France), for an invention for—" A new description of fringes." *Provisional protection only.*

PRINCE. 4th August 1857.

2108. ALEXANDER PRINCE, of the Office for Patents, 4, Trafalgar Square, Charing Cross, in the County of Middlesex, for an invention for—" A substitute for varnish, turpentine, and oil, in the manufacture or mixing of paints and pigments, to be employed for coating or covering wood, metal, glass, and other substances to preserve them from atmospheric influences and fire."—*A communication.*
Letters Patent sealed.

MACPHERSON. 4th August 1857.

2109. PETER MACPHERSON, of Edinburgh, in the County of Mid-Lothian, North Britain, Agricultural Implement Maker, for an invention for—" Improvements in wheeled carriages or vehicles." *Provisional protection only.*

JOHNSON. 4th August 1857.

2110. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of 166, Buchanan Street, in the City of Glasgow, North Britain, Gentleman, for an invention for—" Improvements in sewing-machines."—*A communication.*
Provisional protection only.

ILES. 4th August 1857.

2111. CHARLES ILES, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—" An improvement or improvements in the manufacture of thimbles." *Letters Patent sealed.*

CAMBRIDGE. 4th August 1857.

2112. WILLIAM COLBORNE CAMBRIDGE, of Bristol, Agricultural Implement Maker, for an invention for—" Improvements in the construction and working of endless travelling railways." *Provisional protection only.*

CAMBRIDGE. 4th August 1857.

2113. WILLIAM COLBORNE CAMBRIDGE, of Bristol, Agricultural Implement Maker, for an invention for—" Improvements in press wheel rollers or clod crushers."
Letters Patent sealed.

NEWTON. 4th August 1857.

2114. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"Improvements in umbrellas and parasols."—*A communication from Mardochée Lévy, and François Henry Blajot, of Paris, in the Empire of France.*

Provisional protection only.

LITTLEWOOD. SCHLUMBERGER. 5th August 1857.

2115. JOHN LITTLEWOOD, of Church, near Accrington, in the County of Lancaster, Calico Printer, and ALBERT SCHLUMBERGER, of the same place, Chemist, for an invention for—"Improvements in producing printed or dyed colours from murexide, on woollen fabrics or yarns, or mixed fabrics, or yarns of wool and cotton."

Provisional protection only.

BOTTURI. 5th August 1857.

2116. SEBASTIEN BOTTURI, of Paris (France), Rue de la Roquette, 140, for an invention for—"An apparatus and oven for the carbonization and distillation of all animal and vegetable matters." *Letters Patent sealed; Specification filed by order.*

BOTTURI. 5th August 1857.

2117. SEBASTIEN BOTTURI, of Paris (France), Rue de la Roquette, 140, for an invention for—"The making of moveable chairs and seats of every kind and description, to be called Botturi's moveable chairs and seats."

Letters Patent sealed; Specification filed by order.

LYNE. 5th August 1857.

2118. THOMAS LYNE, of Malmsbury, in the County of Wilts, Draper, for an invention for—"An improved field stile or gate." *Letters Patent sealed.*

FIELD. 5th August 1857.

2119. THOMAS FIELD, Stay Cleaner, of Spring Place, Kentish Town, London, in the County of Middlesex, for an invention for—"Effecting improvements in parasols and umbrellas." *Provisional protection only.*

MIDDLETON. LOWES. 6th August 1857.

2120. SAMUEL MIDDLETON, and JOHN LOWES, both of Southwark, in the County of Surrey, for an invention for—"Improved apparatus for the extinction of fire in buildings." *Provisional protection only.*

BOTTURI. 6th August 1857.

2121. SEBASTIEN BOTTURI, of Paris (France), Rue de la Roquette, 140, for an invention for—"A system of weaving for the manufacture of all kinds of textile goods, viz^t, shawls, silk stuffs, carpets, knotted or unknotted, single or double faced gobelins tapestry, drapery, velvets, damask linen and various other articles, by means of a frame which replaces the jacquard loom."

Letters Patent sealed; Specification filed by order.

DALGETY. 6th August 1857.

2122. ALEXANDER DALGETY, of No. 7, Joynson Street, Strangeways, Manchester, in the County of Lancaster, Engineer, for an invention for—"Improvements in rotary engines and pumps." *Provisional protection only.*

CROSSLEY. 6th August 1857.

2123. DANIEL JONES CROSSLEY, of Hebden Bridge, in the County of York, Manufacturer, for an invention for—"Improvements in the treatment of certain textile fabrics called 'Pellones,' and used for saddle covers, and in the machinery or apparatus for effecting the same." *Letters Patent sealed.*

ROWLAND. 6th August 1857.

2124. ELLIS ROWLAND, of Manchester, in the County of Lancaster, Engineer, for an invention for—"Certain improvements in steam-engines." *Letters Patent sealed.*

GILMOUR. 6th August 1857.

2125. WILLIAM GILMOUR, of Dalbeth, in the County of Lanark, North Britain, Gardener, for an invention for—"Improvements in obtaining motive-power."

Provisional protection only.

LAWLEY. 6th August 1857.

2126. THOMAS LAWLEY, of Wolverhampton, in the County of Stafford, Japanner, for an invention for—"Improvements in ornamenting articles made of tin plate and of other bright metals." *Letters Patent sealed.*

PARKER. 6th August 1857.

2127. JOHN PARKER, of Ivy House, Bradford, in the County of York, for an invention for—"Improvements in the means of supplying or feeding steam-boilers with water, whereby a great saving of fuel is effected." *Letters Patent sealed.*

LÖWISSOHN. 7th August 1857.

2128. BERTHOLD LÖWISSOHN, of Fenchurch Street, in the City of London, for an invention for—"An improvement in the manufacture of soap."

Provisional protection only.

BRADLEY. 7th August 1857.

2129. JOHN BRADLEY, of Radcliffe in the County of Lancaster, Engraver, for an invention for—"Certain improvements in machinery or apparatus for engraving metallic cylinders or rollers employed for printing calico and other surfaces."

Provisional protection only.

SCARTLIFF.
7th August 1857.

2130. JOHN ROBINSON SCARTLIFF, of Wolverhampton, in the County of Stafford, Whitesmith, for an invention for—"Certain improvements in mathematical instruments." *Provisional protection only.*

NEWTON.
7th August 1857.

2131. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"Improvements in mules for spinning."—*A communication.* *Letters Patent sealed.*

SHAW.
8th August 1857.

2132. THOMAS GEORGE SHAW, of Dartmouth Row, Blackheath, in the County of Kent, Merchant, for an invention for—"Improvements in washing and wringing machines." *Letters Patent sealed.*

HOLDSWORTH.
8th August 1857.

2133. WILLIAM IRVING HOLDSWORTH, of Shaw Lodge Mills, in the Parish of Halifax, in the County of York, Worsted Manufacturer and Merchant, for an invention for—"Improvements in weaving woollen damasks."—*A communication.* *Letters Patent sealed.*

LANGFORD.
WILDER.
8th August 1857.

2134. JOHN LANGFORD, of Birmingham, in the County of Warwick, Manufacturer, and JOSEPH WILDER, of Birmingham aforesaid, Pyrotechnic Artist, for an invention for—"Improvements in signals and alarums." *Letters Patent sealed.*

OSCHINSKY.
8th August 1857.

2135. ISAAC OSCHINSKY, of 16, Old Broad Street, in the City of London, and 6ᴬ, Neue Tarchenstrasse, in Breslau, in Prussia, Manufacturer of Refined Soaps, for an invention for—"An improved soap to which he gives the name of 'Rheumo-arthritic soap.'" *Provisional protection only.*

COLLIER.
NOBLE.
HOLROYD.
8th August 1857.

2136. GEORGE COLLIER, WILLIAM NOBLE, and WARD HOLROYD, all of Halifax, in the County of York, Manufacturers, for an invention for—"Improvements in cutting, shaping and planing wood, and in the tools and apparatus employed therein." *Letters Patent sealed.*

ANDERTON.
RUSHWORTH.
BENN.
8th August 1857.

2137. JOHN ANDERTON, Bookkeeper and Draftsman, JONAS FOSTER RUSHWORTH, Bookkeeper, and JOSEPH BENN, Mechanic, all of Queenshead, in the County of York, for an invention for—"Improvements in machinery for moulding, cutting and carving wood and stone." *Provisional protection only.*

SHAW.
10th August 1857.

2138. THOMAS GEORGE SHAW, of Dartmouth Row, Blackheath, in the County of Kent, Merchant, for an invention for—"Improvements in machinery for thrashing and separating wheat and other grain." *Provisional protection only.*

BERTRAM.
JULLION.
10th August 1857.

2139. JAMES BERTRAM, of Edinburgh, in the County of Midlothian, North Britain, Engineer, and JOHN LOUIS JULLION, of Foot's Cray, in the County of Kent, Analytical Chemist, for an invention for—"Improvements in the manufacture of paper." *Letters Patent sealed.*

ROBERTS.
10th August 1857.

2140. JOHN ROBERTS, Junior, of Whitechapel Road, in the County of Middlesex, for an invention for—"Improving the combustion of fuel and preventing the escape of fuliginous smoke from shafts and flues." *Letters Patent sealed.*

GEDGE.
10th August 1857.

2141. JOHN GEDGE, of No. 4, Wellington Street South, Strand, in the County of Middlesex, Patent Agent, for an invention for—"Improvements in carriages of printing-presses."—*A communication from Adolphe Barthélemy Elbena, of Toulon, France.* *Provisional protection* NOT *granted.*

TREMESCHIN.
10th August 1857.

2142. ANTOINE TREMESCHIN, of King Street, Snow Hill, in the County of Middlesex, Compositor, for an invention for—"Improvements in curling tongs." *Provisional protection only.*

RENTON.
10th August 1857.

2143. AMHERST HAWKER RENTON, of Buckingham Street, Adelphi, in the City of Westminster, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in apparatus for steering vessels."—*A communication from Hippolyte Perie, Emile Bellamy, and François Sterling, Junior, all of Bordeaux in France.* *Letters Patent sealed.*

GODEFROY.
10th August 1857.

2144. PETER AUGUSTIN GODEFROY, of No. 3, Kingsmead Cottages, New North Road, in the County of Middlesex, Operative Chemist, for an invention for—"An improved method of desulphurizing mineral matrix, for the extraction of auriferous, argentiferous, and other metals contained therein." *Letters Patent sealed.*

CHAMBERS.
11th August 1857.

2145. GEORGE CHAMBERS, of Cheapside, in the City of London, Merchant, for an invention for—"Improvements in separating cinders from ashes, and economizing fuel." *Letters Patent sealed*

LANG.
11th August 1857.

2146. ALEXANDER LANG, Engineer, residing at Kinniel Iron Works, in the County of Linlithgow, for an invention for—"Improved machinery for feeding steam-boilers." *Provisional protection only.*

HUSBAND.
11th August 1857.

2147. RICHARD HUSBAND, of Manchester, in the County of Lancaster, Hat Manufacturer, for an invention for—"An improvement in the manufacture of hats." *Provisional protection only.*

GROUNDWATER.
PRINCE.
11th August 1857.

2148. WILLIAM LYELL GROUNDWATER, of Bridge Street, Greenwich, Engineer, and HENRY PRINCE, of the Grove, Great Guildford Street, Southwark, Iron Founder, for an invention for—"Improvements in pumps." *Letters Patent sealed.*

NEWTON.
11th August 1857.

2149. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in pickers for looms."—*A communication.* *Letters Patent sealed.*

HARDCASTLE.
12th August 1857.

2150. THOMAS HARDCASTLE, of Bradshaw, near Bolton-le-Moors, in the County of Lancaster, Printer, Dyer, and Bleacher, for an invention for—"Improvements in machinery for washing textile fabrics." *Letters Patent sealed.*

WAGSTAFF.
12th August 1857.

2151. ROBERT WAGSTAFF, of Mottram-in-Longendale, in the County of Chester, Blacksmith, for an invention for—"Certain improvements in machinery or apparatus for digging land." *Letters Patent sealed.*

WAGSTAFF.
12th August 1857.

2152. ROBERT WAGSTAFF, of Mottram-in-Longendale, in the County of Chester, Blacksmith, for an invention for—"Certain improvements in locomotive engines to be employed on common roads or ways, applicable to agricultural and other similar purposes." *Letters Patent sealed.*

CANTELO.
12th August 1857.

2153. WILLIAM JAMES CANTELO, of Southwark, in the County of Surrey, Gentleman, for an invention for—"Improvemements in the preservation of vegetable matters." *Letters Patent sealed.*

CLARKE.
12th August 1857.

2154. WILLIAM ALEXANDER CLARKE, of West Malvern, in the County of Worcester, Hydropathist and Thermopathist, for an invention for—"Improvements in the construction of and mode of applying hot air and vapour baths." *Letters Patent sealed.*

PRATCHITT.
HORROCKS.
13th August 1857.

2155. WILLIAM PRATCHITT, and SAMUEL HORROCKS, both of Bolton-le-Moors, in the County of Lancaster, Engineers, for an invention for—"Improvements in apparatus to regulate the pressure of fluids and to compensate for the expansion of steam and hot water pipes." *Letters Patent sealed.*

COLLINGRIDGE.
13th August 1857.

2156. HENRY COLLINGRIDGE, of 3, St. Aldate's Street, in the City of Oxford, Grocer, for an invention for—"Improvements in separating metallic substances from coffee, and in the apparatus employed for the purpose." *Provisional protection only.*

M^{c}ADAM.
13th August 1857.

2157. ROBERT M^{c}ADAM, of Baldoon, near Kirkinner, in the County of Wigton, North Britain, Dairyman, for an invention for—"Improved apparatus to be employed in making cheese and in drawing off liquids." *Letters Patent sealed.*

WHEATCROFT.
SMITH.
13th August 1857.

2158. WILLIAM SMITH WHEATCROFT, Engineer and Surveyor, and JAMES NEWTON SMITH, Agent, both of Manchester, in the County of Lancaster, for an invention for—"Improvements in valves and the chambers connected therewith, applicable to hydrants and taps for the supply of water and other fluids." *Letters Patent sealed.*

BOSWORTH.
13th August 1857.

2159. JOHN ALLEYNE BOSWORTH, of Humberstone, in the County of Leicester, Gentleman, for an invention for—"Improvements in machinery for grinding and crushing clay and brick earth." *Letters Patent sealed.*

BOUSFIELD.
13th August 1857.

2160. GEORGE TOMLINSON BOUSFIELD, of Loughborough Park, Brixton, in the County of Surrey, for an invention for—"Improvements in sewing-needles."—*A communication.* *Letters Patent sealed.*

NEWTON.
13th August 1857.

2161. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improved machinery for cutting files."—*A communication.* *Letters Patent sealed.*

BENSON.
13th August 1857.

2162. JAMES WILLIAM BENSON, of Ludgate Hill, in the City of London, Watch Manufacturer and Jeweller, for an invention for—"Improvements in the construction of bows or handles of watches, lockets, eyeglasses, and other articles requiring such appendages." *Provisional protection only.*

EADE.
13th August 1857.

2163. THOMAS EADE, of Ipswich, in the County of Suffolk, for an invention for —"An improved breech loading fire-arm, and projectile to be used therewith." *Provisional protection only.*

PARKINSON.
14th August 1857.

2164. JOHN PARKINSON, of the Victoria Works, Bury, in the County of Lancaster, Engineer, for an invention for—"Improvements in the construction of pressure and vacuum gauges." *Letters Patent sealed.*

LAVIRON.
14th August 1857.

2165. PAUL EMILE LAVIRON, of Paris, France, Gentleman, for an invention for—"Improvements in apparatus for curing smoky chimnies and for increasing the draft in them." *Letters Patent sealed.*

TICKLE.
14th August 1857.

2166. JOHN TICKLE, Engineer, of Westbromwich, in the County of Stafford, for an invention for—"Certain improvements in metallic pistons for steam and other cylinders." *Provisional protection only.*

GUMM.
14th August 1857.

2167. CHARLES GUMM, of Change Alley, Cornhill, in the City of London, Ship Broker, for an invention for—"Improvements in the construction of boats."—*A communication.* *Letters Patent sealed.*

LIPSCOMBE.
14th August 1857.

2168. FREDERICK LIPSCOMBE, of the Strand, in the County of Middlesex, Water Filter Manufacturer, for an invention for—Improvements in the mode of diverting the London sewage from the river Thames and in discharging it into the sea." *Letters Patent sealed.*

DRAPER.
14th August 1857.

2169. SAMUEL DRAPER, of Lenton, near Nottingham, for an invention for—"Improvements in the manufacture of handles and fastenings for doors of railway and other carriages." *Letters Patent sealed.*

CLIFT.
15th August 1857.

2170. SAMUEL CLIFT, of Manchester, Manufacturing Chemist, for an invention for—"Improvements in the purification of certain gases, and in the application of their products to the manufacture of alum." *Letters Patent sealed.*

SMITH.
15th August 1857.

2171. WILLIAM SMITH, of Manchester, in the County of Lancaster, Soap Manufacturer, for an invention for—"Improvements in making soap." *Provisional protection only.*

CARDIN.
15th August 1857.

2172. JAMES JOSEPH CARDIN, of No. 9, Orange Street, Red Lion Square, in the County of Middlesex, Gentleman, for an invention for—"Improvements in breaks for omnibuses." *Provisional protection only.*

AUCHER.
15th August 1857.

2173. AUGUSTE JOSEPH AUCHER, of Paris (France), Gentleman, for an invention for—"Improvements in elastic tissues for ladies' petticoats, and other similar articles." *Provisional protection only.*

BOUSFIELD.
15th August 1857.

2174. GEORGE TOMLINSON BOUSFIELD, of Loughborough Park, Brixton, in the County of Surrey, for an invention for—"Improvements in the preparation of dough for bread, pastry, cake, and other farinaceous articles of food."—*A communication from James Perry and Elisha Fitzgerald, both of New York.* *Letters Patent sealed.*

CLARK.
15th August 1857.

2175. WILLIAM STETTINIUS CLARK, of the American Patent Agency, 133, High Holborn, in the County of Middlesex, for an invention for—"Improvements in hay and hop presses, the same being applicable to compressing other substances of a similar nature."—*A communication from P. C. Ingersoll and H. F. Dougherty, of New York, America.* *Provisional protection only.*

HADDAN.
15th August 1857.

2176. JOHN COOPE HADDAN, of Cannon Row, in the City of Westminster, Civil Engineer, for an invention for—"Improvements in the construction of railways and of the carriages to be used therewith or thereon." *Provisional protection only.*

BUCKLEY.
WRIGLEY.
15th August 1857.

2177. JOHN BUCKLEY, of Carr Hill, Saddleworth, in the County of York, Cotton Spinner and Manufacturer, and THOMAS WRIGLEY, of the same place, Overlooker, for an invention for—"Improvements in self-acting mules or machines for spinning and doubling." *Letters Patent sealed.*

PIROTTE.
15th August 1857.

2178. HUBERT PIROTTE, of Liege, in the Kingdom of Belgium, Mechanist, for an invention for—"Improvements in the construction of lathes for boring and turning." *Letters Patent sealed.*

SMITH.
17th August 1857.

2179. ARCHIBALD SMITH, Engineer, of 69, Princes Street, Leicester Square, London, for an invention for—"Improvements in machinery for and in the method or methods of making wire ropes." *Letters Patent sealed.*

ABRAHAM.
17th August 1857.

2180. JOHN ABRAHAM, of Birmingham, in the County of Warwick, Machinist, for an invention for—"A new or improved gauge for gauging wire and sheet metal, and for other like purposes." *Letters Patent sealed.*

TALBOT.
CROASDALE.
17th August 1857.

2181. RICHARD TALBOT, of Blackburn, in the County of Lancaster, Overlooker of Power Looms, and BENJAMIN CROASDALE, of Witton, near Blackburn, Joiner, for an invention for—"Improvements in looms." *Letters Patent sealed.*

CARMICHAEL.
17th August 1857.

2182. PETER CARMICHAEL, of Dens Works, Dundee, for an invention for—"Improvements in calendering and mangling cloth." *Letters Patent sealed.*

HOE.
17th August 1857.

2183. RICHARD HOE, of 44, Leadenhall Street, in the City of London, Packing Case Maker, for an invention for—"Improvements in bullion boxes and in boxes used for carrying other valuable commodities." *Letters Patent sealed.*

POZNANSKI.
17th August 1857.

2184. FRANÇOIS XAVIER POZNANSKI, of Craven Street, in the City of Westminster, Doctor of Medicine, for an invention for—"An improvement in instruments for ascertaining and indicating the state of the pulse, which improvement is also applicable to other instruments in which fluids are required to circulate or work in tubes of small bore." *Provisional protection only.*

NEWTON.
17th August 1857.

2185. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in the valve arrangement of steam and other engines."—*A communication.*
Letters Patent sealed.

GRIST.
17th August 1857.

2186. JOHN GRIST, of Islington, in the County of Middlesex, Engineer, for an invention for —"Improvements in mash tuns and in apparatus to be employed therewith, which apparatus is also applicable to the heating and keeping up of a continuous circulation of liquids in any vessel to which it may be connected."
Provisional protection only.

REEVES.
17th August 1857.

2187. CHARLES REEVES, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"Improvements in the manufacture of knives."
Provisional protection only.

COUPE.
18th August 1857.

2188. JOSEPH COUPE, of Preston, in the County of Lancaster, Manufacturer, for an invention for—"Improvements in power-looms." *Provisional protection only.*

HUGHES.
18th August 1857.

2189. HUGH PRITCHARD HUGHES, of Coetmor, near Llanllechid, in the County of Carnarvon, for an invention for—"Improvements in the construction or arrangement of a rock boring machine." *Provisional protection only.*

MILLER.
SKINNER.
18th August 1857.

2190. WILLIAM HENRY MILLER, and HENRY EDWARD SKINNER, both of Shadwell, in the County of Middlesex, Engineers, for an invention for—"Improvements in rotary engines and pumps." *Letters Patent sealed.*

NIGHTINGALE.
18th August 1857.

2191. CHARLES NIGHTINGALE, of Wardour Street, Soho, in the County of Middlesex, Bedding Manufacturer, for an invention for—"Improvements in and applicable to machines for tearing or reducing rags and other fabrics."
Letters Patent sealed.

LUPTON.
JACKSON.
DEAN.
HOLDEN.
18th August 1857.

2192. BENJAMIN LUPTON, ROBERT JACKSON, DANIEL DEAN, and JOHN HOLDEN, all of Burnley, in the County of Lancaster, Machinists, for an invention for—"Certain improvements in power looms for weaving."
Povisional protection only.

YOUNG.
18th August 1857.

2193. WILLIAM YOUNG, of Queen Street, in the City of London, for an invention for—"Improvements in fireplaces or stoves." *Provisional protection only.*

KEDDY.
18th August 1857.

2194. THOMAS KEDDY, of Handsworth, in the County of Stafford, Factor, for an invention for—"New or improved machinery for the cultivation of land."
Letters Patent sealed.

ROSENTHAL.
19th August 1857.

2195. SIGISMOND ROSENTHAL, Artist, 2, Red Lion Square, Holborn, County of Middlesex, for an invention for—"Printing on both sides of a sheet of paper by a single impression, on an ordinary lithographic or other press."
Provisional protection only

BOTTOMLEY. BOTTOMLEY. BOTTOMLEY. 19th August 1857.

2196. SAMUEL BOTTOMLEY, JAMES BOTTOMLEY, and THOMAS BOTTOMLEY, all of Battershaw, in the Township of North Bierly, in the Parish of Bradford, in the County of York, Stuff Manufacturers, for an invention for—"Improvements in machinery acting upon and in connection with rotary shuttle boxes, for weaving checks, plaids, figured and fancy goods." *Letters Patent sealed.*

WALL. 19th August 1857.

2197. ARTHUR WALL, of the East India Road, Poplar, in the County of Middlesex, Chemist, for an invention for—"Improvements in amalgamating metals." *Letters Patent sealed.*

WALL. 19th August 1857.

2198. ARTHUR WALL, of the East India Road, Poplar, in the County of Middlesex, Chemist, for an invention for—"Improvements in coating metallic surfaces." *Letters Patent sealed.*

DESSALES. 19th August 1857.

2199. ALEXIS JEAN DESSALES, of 13, Rue des Enfants Rouges, Paris, in the Empire of France, and of 43, Southampton Buildings, Chancery Lane, in the County of Middlesex, for an invention for—"An improvement in lamps for railway carriages, ships' cabins, and other oil lamps." *Provisional protection only.*

BALESTRINI. 19th August 1857.

2200. PIER ALBERTO BALESTRINI, of Brescia, Italy, now temporarily of 39, Mark Lane, in the City of London, Gentleman, for an invention for—"A new method of and apparatus for sounding at sea and in other waters." *Letters Patent sealed.*

Earl of DUNDONALD. 19th August 1857.

2201. THOMAS Earl of DUNDONALD, Admiral of the White, of 5, Osnaburgh Terrace, Regent's Park, for an invention for—"Improvements in preparing land for agricultural purposes." *Provisional protection* NOT *granted.*

VASSEROT. 19th August 1857.

2202. CHARLES FRÉDERIC VASSEROT, of 45, Essex Street, Strand, London, Patent Agent, for an invention for—"A smoke consuming grate."—*A communication from Messieurs Dalmatius de Luzy and Hector Grand de Chateauneuf, of Paris, France.* *Provisional protection only.*

LUND. 19th August 1857.

2203. EDWARD LUND, of Manchester, in the County of Lancaster, Gentleman, for an invention for—"Certain improvements in cocks, valves, pumps, and water plugs." *Provisional protection only.*

POTTS. 19th August 1857.

2204. FERDINAND POTTS, of the firm of F. Potts & Co., Patent Tube Manufacturers, of Moore's Row, Birmingham, in the County of Warwick, for an invention for —"Certain improvements in the mode of cutting out, forming, and finishing certain descriptions of metallic tubes, part of which is also applicable for other such like purposes." *Letters Patent sealed.*

HARTLEY. 19th August 1857.

2205. WILLIAM HARTLEY, of Bury, in the County of Lancaster, Engineer, for an invention for—"Improvements in steam-engines and steam-boiler apparatus." *Letters Patent sealed.*

GIST. 19th August 1857.

2206. ROBERT CLARK GIST, Gentleman, of 36, Cannon Street, in the City of London, for an invention for—"Improvements in the manufacture of manure."—*A communication.* *Letters Patent sealed.*

RUFF. GUTKIND. 19th August 1857.

2207. FRANZ RUFF, of Gray's Inn Road, in the County of Middlesex, Mechanist, and MAXIMILLIAN GUTKIND, of Noble Street, in the same County, Commission Agent, for an invention for—"Machinery or apparatus for folding and measuring fabrics and registering the same." *Provisional protection only.*

NAPIER. 19th August 1857.

2208. JAMES MURDOCH NAPIER, of Vine Street, York Road, in the County of Surrey, Engineer, for an invention for—"Improvements in apparatus for paying out submarine telegraph cables." *Letters Patent sealed; no specification filed.*

BROOKE. 20th August 1857.

2209. ROBERT LAWRENCE BROOKE, of 20, Keppel Street, Russell Square, in the County of Middlesex, for an invention for—"Improved method for discharging, 'paying out' and submerging electric telegraph cables, wires, or ropes, or such like articles, from ships or vessels of any description. *Provisional protection only.*

GOUGH. MARGERISON. 20th August 1857.

2210. THEOPHILUS GOUGH, of the City and County of Bristol, Engineer, and JOSHUA MARGERISON, of the same City and County, Gentleman, for an invention for—"Improvements in breaking-apparatus for vehicles used on railways or on other roads or ways, parts of which are applicable for communication between guards and drivers of trains." *Provisional protection only.*

GEDGE. 20th August 1857.

2211. JOHN GEDGE of No. 4, Wellington Street South, Strand, in the County of Middlesex, Patent Agent, for an invention for—"Improved means of heating buildings and of facilitating the escape of smoke and gases therefrom."—*A communication from Xavier Lorentz residing near Nancy in the Empire of France.*
Provisional protection only.

BROOMAN. 20th August 1857.

2212. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, E.C., Patent Agent, for an invention for—"A new method of defecating sugar and other saccharine matters, and of refining or rectifying alcohol."—*A communication.* *Letters Patent sealed.*

SPILL. 20th August 1857.

2213. GEORGE SPILL, of Stepney Green, in the County of Middlesex, Manufacturer, for an invention for—"Improvements in treating fabrics employed in the manufacture of hats, caps and bonnets and for other purposes, and also other fabrics, so as to render the same impervious to moisture and grease." *Provisional protection only.*

CHAMBERLAIN. 20th August 1857.

2214. AMOS PIERCE CHAMBERLAIN, of No. 19, Rue Royale, Paris, Gentleman, for an invention for—"Improvements in machines for cutting corks and other substances." *Complete specification; Letters Patent sealed.*

TAYLERSON. 20th August 1857.

2215. ROBERT TAYLERSON, of 5, Tryon's Terrace, Hackney, in the County of Middlesex, for an invention for—"An improvement in metal ships and vessels."
Provisional protection only.

MESSMORE. 20th August 1857.

2216. DANIEL MESSMORE, of the City of New York, in the United States of America, Merchant, for an invention for—"An improved method of dressing mill stones for hulling rice and other grain having hulls or husks."—*A communication from the inventor.* *Provisional protection only.*

INGRAM. 20th August 1857.

2217. THOMAS INGRAM, of Bradford in the County of York, Foreman, for an invention for—"Improvements in railway-breaks." *Letters Patent sealed.*

HALL. 21st August 1857.

2218. WILLIAM KEMBLE HALL, Engineer, of 36, Cannon Street, in the City of London, for an invention for—"Improvements in apparatus for measuring and registering the speed and leeway of ships and indicating the distance accomplished."—*A communication from the Marine Velocimetre Company of New York.*
Provisional protection only.

GLOVER. BOLD. 21st August 1857.

2219. JOSEPH GLOVER, of Liverpool, Photographer, and JOHN BOLD, also of Liverpool aforesaid, in the County of Lancaster, Watch and Clock Maker, for an invention for—"An improved material for transfer printing." *Letters Patent sealed.*

M^cMASTER. WILSON. 21st August 1857.

2220. JOHN M^cMASTER, Farmer, at Caldons, in the Parish of Stoneykirk, and WILLIAM WILSON, residing at Whithorn, both in the County of Wigtown, for an invention for—"Manufacturing liquid farm manure, and rendering it as efficient as any artificial manure, at a small expense to the farmer." *Provisional protection only.*

LAURENT. 21st August 1857.

2221. VICTOR HIPPOLYTE LAURENT, of Plancher-les-Mines, Département de la Haute Saone, in the Empire of France, Engineer, for an invention for—"A new improved machine for forging nails and other similar articles." *Letters Patent sealed.*

ASHCROFT. 21st August 1857.

2222. PETER ASHCROFT, of Richmond House, Dalston, in the County of Middlesex, Civil Engineer, for an invention for—"Alarm signals for the prevention of accidents on railways." *Letters Patent sealed.*

CARTWRIGHT. 21st August 1857.

2223. HENRY CARTWRIGHT, of the Dean Broseley, in the County of Shropshire, Farmer, for an invention for—"Improvements in the construction of steam-engines."
Letters Patent sealed.

DAUGLISH. 21st August 1857.

2224. JOHN DAUGLISH, of Great Malvern, in the County of Worcester, M.D., for an invention for—"Improvements in the preparation of dough."
Letters Patent sealed.

DUFAU. 21st August 1857.

2225. JULES DUFAU, of Paris, in the Empire of France, Civil Engineer, for an invention for—"Improvements in regulating or controlling railway and lighthouse signalling." *Letters Patent sealed.*

CLARKE. 21st August 1857.

2226. HENRY CLARKE, of Chancery Lane, London, Clerk, for an invention for—"Improvements in the lines of steam vessels, and in the method of propelling the same." *Provisional protection only.*

HODGES. 22nd August 1857.

2227. HENRY HODGES, of New York, in the United States of America, temporarily resident at 2, Palace Yard, Westminster, Gunpowder Manufacturer, for an invention for—"Improvements in the manufacture of gunpowder."
Complete specification; Letters Patent sealed.

DIRCKS. 22nd August 1857.

2228. HENRY DIRCKS, of 32, Moorgate Street, in the City of London, Engineer and Patent Agent, for an invention for—"An improved fire-escape."—*A communication.* *Provisional protection only.*

STEELL. STEELL. 22nd August 1857.

2229. GEORGE STEELL, and WILLIAM STEELL, of Kew Road, Richmond, in the County of Surrey, Nursery Florists, Boquet Makers, &c., &c. for an invention for—"The better construction of a double backed double boiler for heating with hot water churches, horticultural buildings, mansions, theatres, &c., &c."
Letters Patent sealed.

GATTY. 22nd August 1857.

2230. FREDERICK ALBERT GATTY, of Accrington, in the County of Lancaster, Manufacturing Chemist, for an invention for—"Improvements in the manufacture of chlorine and sulphuric acid." *Letters Patent sealed.*

SETTLE. 22nd August 1857.

2231. THOMAS SETTLE, Manager to Messieurs Barlow, Gooddy and Jones, of Bolton-le-Moors, in the County of Lancaster, Manufacturers, for an invention for—"Certain improvements in looms for weaving." *Provisional protection only.*

PINCHBECK. 22nd August 1857.

2232. JOHN PINCHBECK, of Katesgrove Iron Works, Reading, in the County of Berks, Civil Engineer, for an invention for—"An improvement in screens for dressing or separating corn or other grain." *Provisional protection only.*

LEVISON. 22nd August 1857.

2233. LUDVIG LEVISON, of Birmingham, in the County of Warwick, Merchant, for an invention for—"Improvements in mechanical purchases to be employed for hoisting purposes and for extracting roots and stumps of trees."—*A communication.*
Letters Patent sealed.

GARDINER. 22nd August 1857.

2234. PERRY G. GARDINER, of the City, County, and State of New York, in the United States of America, Mechanical Engineer, for an invention for—"A new and useful process in the treatment of cast steel while passing from the molten state into that of being hardened or tempered, and which with certain variations is applicable to the making of tools, instruments, axes, wheels, or ingots." *Letters Patent sealed.*

BLANC. 24th August 1857.

2235. FRANÇOIS JULES BLANC, of 39, Rue de l'Echiquier, Paris, in the Empire of France, and 4, South Street, Finsbury, London, Gentleman, for an invention for—"An improved tire for the wheels of railway carriages, engines, and tenders."
Letters Patent sealed.

DAVIS. 24th August 1857.

2236. GEORGE DANIEL DAVIS, of No. 40, St. Leonard's Road, East India Road, in the County of Middlesex, Ship Caulker, for an invention for—"Improvements in the construction and in the method of working windlasses." *Letters Patent sealed.*

NEWTON. 24th August 1857.

2237. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"Improvements in temples for looms."—*A communication from Frédéric Chrétien Keim, of Thann, in the Empire of France.* *Provisional protection only.*

RICKETT. 24th August 1857.

2238. THOMAS RICKETT, of the Castle Foundry, in the County of Buckingham, for an invention for—"Improvements in machinery for sowing seeds and manure."
Provisional protection only.

HAMILTON. 24th August 1857.

2239. ALFRED HAMILTON, of Oxford Square, in the County of Middlesex, for an invention for—"Improvements in the construction of and in mooring buoys, beacons, floating lights, and other floating vessels and bodies." *Letters Patent sealed.*

FOX. SLATER. 24th August 1857.

2240. SAMUEL FOX, and JULIAN WILFRED SLATER, both of Sheffield, in the County of York, Analytical Chemists, for an invention for—"An improved metallic compound applicable to the manufacture of various useful articles."
Provisional protection only.

MACAULEY. 25th August 1857.

2241. THOMAS MACAULEY, of Shoreditch, in the County of Middlesex, Varnish Manufacturer, for an invention for—"Improvements in apparatus for condensing the noxious vapours arising from varnish-making and other like manufactures."
Letters Patent sealed.

PRESTON. 25th August 1857.

2242. FRANCIS PRESTON, of the City of Manchester, Machinist, for an invention for—"Certain improvements in apparatus to be applied to the spindles of machines for preparing, spinning and doubling cotton and other fibrous materials."
Letters Patent sealed.

GEDGE.
25th August 1857.

2243. JOHN GEDGE, of No. 4, Wellington Street South, Strand, in the County of Middlesex, Patent Agent, for an invention for—"Improvements in envelopes for letters and other documents."—*A communication from Ferdinand Thénard, of Paris, in the Empire of France.* *Letters Patent sealed.*

RILEY.
25th August 1857.

2244. EDWARD RILEY, of Droylsden, near Manchester, in the County of Lancaster, Weaver, for an invention for—"Improvements in looms." *Provisional protection only.*

HEMMING.
25th August 1857.

2245. GEORGE WIRGMAN HEMMING, of 10, Belsize Road, St. John's Wood, in the County of Middlesex, for an invention for—"Improvements in apparatus employed in delivering submarine telegraph cables from ships." *Letters Patent sealed.*

JAMES.
25th August 1857.

2246. CHARLES CLEMENT JAMES, of Norwood Green, in the County of Middlesex, Gentleman, for an invention for—"Improvements in propelling vessels." *Provisional protection only.*

NICHOLLS.
25th August 1857.

2247. WILLIAM NICHOLLS, of Chippenham, in the County of Wilts, for an invention for—"An improved apparatus for warming milk." *Provisional protection only.*

PARRY.
25th August 1857.

2248. HENRY PARRY, of Croydon, in the County of Surrey, for an invention for—"Improvements in the construction of rails for railways or tramways." *Letters Patent sealed.*

RONALD.
25th August 1857.

2249. JAMES RONALD, of Liverpool, in the County of Lancaster, Merchant, for an invention for—"Improvements in laying or depositing submarine telegraph cables." *Letters Patent sealed.*

PENN.
25th August 1857.

2250. JOHN PENN, of Greenwich, in the County of Kent, Engineer, for an invention for—"An improvement in apparatus for taking the thrust of screw and submerged propellers." *Letters Patent sealed.*

TUCKER.
BLAXLAND.
25th August 1857.

2251. JOHN JERVIS TUCKER, Captain R.N., of Sheerness, in the County of Kent, and GEORGE BLAXLAND, Superintending Engineer, H.M. Dockyard, Sheerness, in the County of Kent, for an invention for—"Improvements in steam-boiler and other furnaces." *Letters Patent sealed.*

STAUFEN.
25th August 1857.

2252. WERNER STAUFEN, of Baker Street, in the County of Middlesex, Manufacturer, for an invention for—"An improved method of treating Agava Americana or Mexican grass, and the manufacture of a new fabric therefrom."—*Letters Patent sealed.*

NEWTON.
25th August 1857.

2253. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"Improvements in machinery for preparing, roving, spinning and twisting fibrous substances."—*A communication from Emile Hubner, Engineer, of Mulhouse, in the Empire of France.* *Letters Patent sealed.*

NEWTON.
25th August 1857.

2254. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"A mode of varying the length and reversing the direction of the throw of eccentrics, applicable to the reversing gear of locomotives and expansion gear of other steam-engines, and to other purposes."—*A communication.* *Letters Patent sealed; specification filed by order.*

HILL.
MOORE.
25th August 1857.

2255. PHILIP HILL, of Manchester, in the County of Lancaster, Weaver, and JOHN MOORE, of Salford, in the same County, Smallware Manufacturer, for an invention for—"Certain improvements in machinery or apparatus for cutting velvets or other similar piled fabrics." *Letters Patent sealed.*

GEDGE.
26th August 1857.

2256. JOHN GEDGE, of No. 4, Wellington Street South, Strand, in the County of Middlesex, Patent Agent, for an invention for—"Improvements in the manufacture of soap."—*A communication.* *Letters Patent sealed.*

FORSYTH.
26th August 1857.

2257. THOMAS FORSYTH, of the City of Manchester, Engineer, for an invention for—"Improvements in machinery for raising, lowering, traversing, and compressing." *Provisional protection only.*

HARGREAVES.
26th August 1857.

2258. WILLIAM HARGREAVES, of Bradford, in the West Riding of the County of York, Machine Wool Comber, for an invention for—"Improvements in screw gills for preparing wool and other fibrous substances." *Letters Patent sealed*

SMITH.
26th August 1857.

2259. THOMAS SMITH, of the City of Manchester, in the County of Lancaster, Silk Finisher, Embosser, &c., for an invention for—"Improvements in machinery or apparatus for embossing woven fabrics, paper, leather and other materials."
Provisional protection only.

NEWTON.
26th August 1857.

2260. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"Improved machinery for kneading dough."—*A communication.* *Letters Patent sealed.*

ELVIN.
26th August 1857.

2261. HENRY ELVIN, of Castle Acre, in the County of Norfolk, Blacksmith, for an invention for—"Improvements in governors for steam and other engines."
Provisional protection only.

NEWTON.
26th August 1857.

2262. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"Improved means of operating slide valves for the induction and eduction of steam in reciprocating steam-engines."—*A communication.* *Letters Patent sealed.*

GOODWIN.
BOYD.
26th August 1857.

2263. JAMES GOODWIN, of Milton, near Campsie, in the County of Stirling, North Britain, Dyer, and ANDREW BOYD, of the same place, Merchant, for an invention for "Improvements in cleansing printed cotton and silk fabrics from colouring matters."
Letters Patent sealed.

WEBB.
26th August 1857.

2264. JOHN WEBB, of Bristol, in the County of Somerset, for an invention for—"An improved hopper." *Provisional protection only.*

BROWN.
26th August 1857.

2265. THOMAS BROWN, of Fenchurch Street, in the City of London, for an invention for—"Improvement in machinery for raising and lowering weights."
Letters Patent sealed.

M'ISAAC.
27th August 1857.

2266. JOHN M'ISAAC, of Manchester, in the County of Lancaster, Joiner, for an invention for—"A machine or apparatus for washing or churning."
Provisional protection only.

HARLING.
TODD.
HARLING.
27th August 1857.

2267. WILLIAM HARLING, JOHN MATTHEW TODD, and THOMAS HARLING, all of the Calder Foundry, Burnley, in the County of Lancaster, Machine Makers, for an invention for—"Improvements in looms." *Letters Patent sealed.*

THOMPSON.
THOMPSON.
27th August 1857.

2268. CHARLES THOMPSON, and JAMES THOMPSON, of Green Bridge Foundry, Padiham, in the County of Lancaster, Engineers, for an invention for—"Improvements in apparatus for discharging condensed water, air or other fluids, from steam pipes, drying cylinders, and other apparatus where steam is used."
Letters Patent sealed.

NEWTON.
27th August 1857.

2269. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"Certain improvements in bakers' ovens."—*A communication.* *Letters Patent sealed.*

LÖBNITZ.
HENDERSON.
27th August 1857.

2270. JOHN HENRY CHRISTIAN LÖBNITZ, of Renfrew, in the County of Renfrew, North Britain, Engineer, and JAMES M'LINTOCH HENDERSON, of the same place, Ship Builder, for an invention for—"Improvements in steam-engines."
Letters Patent sealed.

AYTOUN.
27th August 1857.

2271. ROBERT AYTOUN, of Edinburgh, in the County of Midlothian, North Britain, Writer to the Signet, for an invention for—"Improvements in safety cages or apparatus for mines." *Letters Patent sealed.*

GENTIL.
GENTIL.
27th August 1857.

2272. FRANÇOIS XAVIER GENTIL, Father, and EUGÈNE GENTIL, Son, of Paris, in the Empire of France, Chemists and Distillers, for an invention for—"Improvements in preparing and treating asphodel in order to obtain alcohol."
Letters Patent sealed.

SHANKS.
28th August 1857.

2273. ANDREW SHANKS, Engineer, 6, Robert Street, Adelphi, Westminster, for an invention for—"Certain improvements in machines for shaping and cutting metals and other substances." *Provisonal protection only.*

BRADY.
28th August 1857.

2274. JOHN DRUMGOOLE BRADY, of Calais, in the Empire of France, Esquire, for an invention for—"Improvements in saddles." *Letters Patent sealed.*

SMITH.
28th August 1857.

2275. WILLIAM SMITH, of Liverpool, in the County of Lancaster, Oil and Tallow Refiner, for an invention for—"An improvement in the manufacture of size made from gelatine." *Provisional protection only.*

MUCKART.' 28th August 1857.	**2276.** JOHN MUCKART, of Montrose, in the County of Forfar, North Britain, Starch Manufacturer, for an invention for—"Improvements in effecting the combustion of fuel and the consumption or prevention of smoke applicable to boiler furnaces." *Provisional protection only.*
WHITTAM. 29th August 1857.	**2277.** ROBERT WHITTAM, of Accrington, in the County of Lancaster, Engraver, for an invention for—"Improvements in machinery or apparatus for ruling upon metallic rollers or cylinders for printing calico and other materials." *Letters Patent sealed.*
CUMMING. 29th August 1857.	**2278.** GEORGE CUMMING, of Edinburgh, in the County of Midlothian, North Britain, Gentleman, for an invention for—"Improvements in apparatus for thermometric, hygrometric, and barometric purposes." *Letters Patent sealed.*
FISHER. 29th August 1857.	**2279.** JOHN FISHER, of Carrington, Nottingham, Lace Manufacturer, for an invention for—"An improvement in the manufacture of bobbin net or twist lace." *Provisional protection only.*
CHARTIER. 29th August 1857.	**2280.** JULES ALPHONSE CHARTIER, of 39, Rue de l'Echiquier, Paris, and 4, South Street, Finsbury, London, Civil Engineer, for an invention for—"Certain improvements in steam-engines." *Letters Patent sealed.*
GILBERT. 31st August 1857.	**2281.** JOSEPH GILBERT, of Evesham, in the County of Worcester, Machinist, for an invention for—"An improvement in combined thrashing machines." *Letters Patent sealed.*
SPENCE. 31st August 1857.	**2282.** PETER SPENCE, of Pendleton, in the County of Lancaster, Manufacturing Chemist, for an invention for—"Improvements in the manufacture of sulphuric acid, and in obtaining salts of ammonia thereby." *Provisional protection only.*
ROEHRIG. 31st August 1857.	**2283.** PHILIPPE ROEHRIG, of Paris, in the Empire of France, Manufacturer, for an invention for—"A new or improved fabric to be used for manufacturing petticoats and other parts of women's dress." *Provisional protection only.*
CLARK. 31st August 1857.	**2284.** WILLIAM CLARK, of 53, Chancery Lane, in the County of Middlesex, Engineer, for an invention for—"Improvements in the application of portable rails or ways to vehicles."—*A communication from Adolphe Joseph Florin, of Orleans.* *Letters Patent sealed.*
BRINSMEAD. 31st August 1857.	**2285.** HENRY BRINSMEAD, of Ipswich, Machinist, for an invention for—"An improvement in the beaters of thrashing machines." *Letters Patent sealed.*
COTTAM. COTTAM. 31st August 1857.	**2286.** GEORGE HALLEN COTTAM, and HENRY RICHARD COTTAM, of the St. Pancras Iron Works, Old St. Pancras Road, for an invention for—"Improvements in the manufacture of childrens' cots and metallic bedsteads." *Letters Patent sealed.*
GISBORNE. FORDE. 31st August 1857.	**2287.** LIONEL GISBORNE, and HENRY CHARLES FORDE, both of Duke Street, Adelphi, Civil Engineers, for an invention for—"Improvements in apparatus for paying out electric telegraph cables." *Letters Patent sealed.*
TAYLOR. 1st September 1857.	**2288.** JOHN GEORGE TAYLOR, Merchant, Glasgow, in the County of Lanark, for an invention for—"Improvements in the construction and alteration of doors, shutters, blinds, and other closures to buildings and erections, so as to allow of their illumination, which improvements are also applicable to omnibuses and other vehicles, and to clock dials, lamps, and postal pillars." *Provisional protection only.*
COATES. 1st September 1857.	**2289.** HENRY COATES, of Crawshaw Booth, near Rawtenstall, in the County of Lancaster, Mechanic, for an invention for—"Improvements in heating liquids used in bleaching, dying, soaping, clearing, and sizing." *Provisional protection only.*
BRADFORD. 1st September 1857.	**2290.** THOMAS BRADFORD, of Salford, in the County of Lancaster, Ironmonger, for an invention for—"Certain improved apparatus for washing clothes or articles of wearing-apparel, which apparatus is also applicable to churning." *Letters Patent sealed.*
BELL. 1st September 1857.	**2291.** GEORGE BELL, of South Inch-Michael, in the County of Perth, North Britain, Farmer, for an invention for—"Improvements in reaping and mowing machines." *Letters Patent sealed.*
RAWSON. 1st September 1857.	**2292.** HENRY RAWSON, of Leicester, for an invention for—"An improvement in machinery for combing wool and other fibres." *Letters Patent sealed.*

LENOX.
1st September 1857.

2293. GEORGE WILLIAM LENOX, of Billiter Square, in the City of London, Iron Cable and Anchor Manufacturer, for an invention for—"Improvements in apparatus for sounding alarums at sea." *Letters Patent sealed.*

GRAY.
GLADSTONE.
1st September 1857.

2294. THOMAS GRAY, of Richmond Street, St. George's Road, Southwark, and GEORGE JOSEPH GLADSTONE, of Blackwall, Shipwrights' Surveyor, for an invention for—"Improvements in apparatus for lowering and letting go ships' boats." *Letters Patent sealed.*

ELLIOTT.
1st September 1857.

2295. ROBINSON ELLIOTT, Artist, of South Shields, in the County of Durham, for an invention for—"Improvements in photography by which the lensular defects of the present processes of taking photographic prints are avoided, and impressions are obtained of any size." *Letters Patent sealed.*

TAYLOR.
1st September 1857.

2296. EPHRAIM TAYLOR, of Blackburn, in the County of Lancaster, Mechanic, for an invention for—"Improvements in looms." *Letters Patent sealed.*

GRENET.
VAVIN.
1st September 1857.

2297. EUGÈNE GRENET, Junior, and ALEXIS VAVIN, of Paris, in the French Empire, Gentlemen, for an invention for—"An improved electro-magnetic machine." *Provisional protection only.*

SACK.
1st September 1857.

2298. RUDOLPH SACK, of Loeben, near Luetzen, in the Kingdom of Prussia, Farmer, for an invention for—"Improvements in the construction of ploughs." *Letters Patent sealed.*

LEIGH.
2nd September 1857.

2299. EVAN LEIGH, of the City of Manchester, in the County of Lancaster, Mechanical Engineer, for an invention for—"Improvements in constructing certain parts of machinery or apparatus used in preparing and spinning cotton and other fibrous substances." *Letters Patent sealed.*

HARDCASTLE.
2nd September 1857.

2300. THOMAS HARDCASTLE, of Bradshaw, near Bolton-le-Moors, in the County of Lancaster, Bleacher, Dyer and Printer, for an invention for—"Improvements in machinery for washing textile fabrics and fibrous substances." *Letters Patent sealed; no specification filed.*

ROYS.
2nd September 1857.

2301. THOMAS WELCOME ROYS, of Southampton, Long Island, in the State of New York, in the United States of America, Master Mariner, for an invention for —"Improved apparatus applicable to the capture of whales and other purposes." *Letters Patent sealed.*

NEWTON.
2nd September 1857.

2302. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"Certain improvements in meters for gas and other fluids."—*A communication.* *Provisional protection only.*

PETRIE.
2nd September 1857.

2303. JAMES PETRIE, of Rochdale, in the County of Lancaster, Engineer, for an invention for—"Improvements in apparatus for regulating the admission of air to furnaces." *Letters Patent sealed.*

PARNELL.
3rd September 1857.

2304. GEORGE FREDERICK PARNELL, of the Parish of Hoxton, in the County of Middlesex, Warehouseman, for an invention for—"Improvements in the construction of hooks and eyes." *Letters Patent sealed.*

HOLLAND.
RUBERY.
3rd September 1857.

2305. THOMAS HOLLAND, Brass Founder, and JOHN RUBERY, Umbrella and Parasol Furniture Manufacturer, both of Birmingham, in the County of Warwick, for an invention for—"Certain improvements in the mode of manufacturing the runners and top notches of umbrellas and parasols." *Provisional protection only.*

JACKSON.
3rd September 1857.

2306. THOMAS JACKSON, of Orchard Street, Portman Square, in the County of Middlesex, Pianoforte Manufacturer, for an invention for—"Improvements in the action of pianofortes." *Letters Patent sealed.*

ATHA.
PEARSON.
SPURR.
3rd September 1857.

2307. JOSEPH RICHARD ATHA, of Heckmondwike, in the County of York, Engineer, WILLIAM PEARSON, of Birstal, in the said County of York, Engineer, and WILLIAM SPURR, of Birstal aforesaid, Engineer, for an invention for—"Improvements in railway signals." *Letters Patent sealed.*

GARDINER.
3rd September 1857.

2308. PERRY G. GARDINER, of the City, County and State of New York, in the United States of America, Mechanical Engineer, for an invention for—"New and useful improvements in the conical coiled steel railroad car spring, and also of new and useful machinery for preparing, coiling, and converting steel plates or bars into such springs, and for testing and measuring the strength of such springs." *Letters Patent sealed.*

INSKIP.
3rd September 1857.

2309. HARRY INSKIP, of Hertford, in the County of Hertford, Seed Crusher, for an invention for—" Improvements in fire-arms. *Provisional protection only.*

BORLAND.
4th September 1857.

2310. JOHN YUIL BORLAND, of the City of Manchester, in the County of Lancaster, Machinist, for an invention for—" Improvements in machinery for preparing, spinning, winding, and doubling fibrous materials." *Letters Patent sealed.*

MOREAU.
4th September 1857.

2311. LOUIS MOREAU, of Paris, France, Gentleman, for an invention for—" Improvements in apparatus for carbonizing peat, wood, and other combustible matters." *Letters Patent sealed.*

GODET.
4th September 1857.

2312. PROSPER BERNARD GODET, of Paris, France, Gentleman, for an invention for—" Improvements in stereoscopes." *Provisional protection only.*

PETITJEAN.
4th September 1857.

2313. TONY PETITJEAN, of Hatton Garden, in the County of Middlesex, Chemist, for an invention for—" An improved method of obtaining aluminium and magnesium." *Letters Patent sealed.*

RAMIE.
4th September 1857.

2314. CHARLES WILLIAM RAMIE, of Camberwell, in the County of Surrey, for an invention for—" Improvements in constructing the permanent ways of railway." *Letters Patent sealed.*

FERRIER.
4th September 1857.

2315. JACQUES ALEXANDRE FERRIER, of Paris, in the Empire of France, for an invention for—" Improvements in transparent photographic pictures and their application to stereoscopes." *Provisional protection only.*

ROBERTSON.
4th September 1857.

2316. JAMES ROBERTSON, of Kentish Town, in the County of Middlesex, Gentleman, for an invention for—" Improvements in furnaces and in the consumption or prevention of smoke." *Provisional protection only.*

NEWTON.
4th September 1857.

2317. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—" An improvement applicable to rolls for rolling iron or other metals."—*A communication.* *Letters Patent sealed.*

TURNER.
4th September 1857.

2318. ARCHIBALD TURNER, of Leicester, Elastic Webb Manufacturer, for an invention for—" Improvements in the manufacture of elastic fabrics." *Letters Patent sealed.*

NUTTALL.
STEAN.
4th September 1857.

2319. JAMES NUTTALL, of Silver Street, in the City of London, and LOUIS STEAN, of Goswell Street, in the County of Middlesex, for an invention for—" Improvements in fur gloves." *Letters Patent sealed.*

SCOTT.
5th September 1857.

2320. URIAH SCOTT, of Camden Town, in the County of Middlesex, Engineer, for an invention for—" Improvements in machines for cleaning knives." *Letters Patent sealed.*

WILKINS.
MILWARD.
5th September 1857.

2321. THOMAS BENT WILKINS, Accountant Clerk, of Birmingham, in the County of Warwick, and THOMAS MILWARD, Metal Stamper, of Harborne, in the County of Stafford, for an invention for—" Certain improvements in the combination of dies for stamping belt fastenings, and which said improvements are also applicable to the stamping of other such like articles or ornaments." *Provisional protection only.*

JOHNSON.
5th September 1857.

2322. RICHARD JOHNSON, of Blackburn, in the County of Lancaster, Gentleman, for an invention for—" Certain improvements in purifying and filtering water." *Letters Patent sealed.*

KING.
5th September 1857.

2323. JOHN KING, of Cannon Street, in the City of London, for an invention for —" Improvements in the manufacture of boots and shoes, and in machinery for that purpose."—*A communication.* *Provisional protection only.*

NEWTON.
5th September 1857.

2324. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—" Improvements in clocks or time keepers."—*A communication.* *Letters Patent sealed.*

NEWTON.
5th September 1857.

2325. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—" Improvements in the manufacture of a composition to be employed in the preparation of pigments."—*A communication from the inventor.* *Letters Patent sealed.*

ARCHER.
5th September 1857.

2326. HENRY ARCHER, of Gloucester Street, Pimlico, in the County of Middlesex, Gentleman, for an invention for—" Improvements in envelopes." *Provisional protection only.*

FONTAINEMOREAU. 5th September 1857.

2327. PETER ARMAND LE COMTE DE FONTAINEMOREAU, of London, Paris, and Brussels, Patent Solicitor, for an invention for—"An improved time-keeper dial showing the exact time in different countries."—*A communication.*
Letters Patent sealed.

BUTLER. 7th September 1857.

2328. SPILSBURY BUTLER, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"A new or improved hearse." *Letters Patent sealed.*

FONTAINEMOREAU. 7th September 1857.

2329. PETER ARMAND LE COMTE DE FONTAINEMOREAU, of No. 4, South Street, Finsbury, London, Patent Solicitor, for an invention for—"Improvements in doors."—*A communication.* *Letters Patent sealed.*

WALKER. WALKER. 7th September 1857.

2330. ANDREW WALKER, of Shotts, in the County of Lanark, North Britain, Moulder, and THOMAS WALKER, of the same place, Pattern Maker, for an invention for—"Improvements in the treatment or preparation of moulds for casting metals."
Provisional protection only.

GOODCHILD. 7th September 1857.

2331. THOMAS GOODCHILD, of Guildford, in the County of Surrey, Architect and Surveyor, for an invention for—"Improvements in stoves and fireplaces."
Letters Patent sealed.

LEWIS. LEWIS. 7th September 1857.

2332. WILLIAM LEWIS, and WILLIAM HENRY LEWIS, of the City and State of New York, United States of America, for an invention for—"Improvements in plate holders or frames for photographic cameras." *Letters Patent sealed.*

SELLERS. 7th September 1857.

2333. WILLIAM SELLERS, of the City of Philadelphia, in the State of Pennsylvania, United States of America, for an invention for—"Improvements in boring or turning mills for operating in metals or stone." *Letters Patent sealed.*

PARKER. 7th September 1857.

2334. BENJAMIN PARKER, of Hammersmith, in the County of Middlesex, Surveyor, for an invention for—"A new elastic composition for coating, cementing, bedding, and otherwise protecting bodies; also applicable to the construction or formation of articles to which it may be suitable." *Provisional protection only.*

DUMÉRY. 7th September 1857.

2335. CONSTANT JOUFFROY DUMÉRY, of Paris, in the Empire of France, Civil Engineer, for an invention for—"Improvements in smoke preventing apparatus."
Letters Patent sealed.

SCOTT. 7th September 1857.

2336. URIAH SCOTT, of Camden Road, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in boots and shoes, applicable in part to shoes for horses." *Letters Patent sealed.*

IMBERT. 7th September 1857.

2337. LOUIS ALEXIS IMBERT, of Trevilly, near Avallon, a Town of France, for an invention for—"An iron straight edge holder designed for straightening walls, edges, or mouldings." *Provisional protection only.*

MACKELCAN. 8th September 1857.

2338. GEORGE JOSIAH MACKELCAN, of No. 4, Falcon Street, Falcon Square, London, Engineer, for an invention for—"Improvements in floating docks."
Letters Patent sealed.

PARSON. PILGRIM. 8th September 1857.

2339. GEORGE JOHN PARSON, of Adelphi Terrace, Strand, Gentleman, and THOMAS PILGRIM, Engineer, of Bow, both in the County of Middlesex, for an invention for—"Improvements in the mode of generating steam in the boilers of steam-engines, and in raising the temperature of steam for other uses."
Provisional protection only.

ROYS. 8th September 1857.

2340. THOMAS WELCOME ROYS, of Southampton, Long Island, in the State of New York, in the United States of America, Master Mariner, for an invention for—"Improved apparatus applicable to the capture of whales and other purposes."
Provisional protection NOT *granted.*

SHARPE. 8th September 1857.

2341. BENJAMIN SHARPE, of Hanwell Park, in the County of Middlesex, for an invention for—"Improvements in electric telegraph cables, and in the apparatus used for paying out such cables." *Letters Patent sealed.*

MARLAND, 8th September 1857.

2342. JOHN MARLAND, of Fernlee Vale, Saddleworth, in the County of York, for an invention for—"An improvement in the manufacture of cop tubes."
Provisional protection only.

MILLER. 8th September 1857.

2343. JAMES M. MILLER, of Washington, in the County of Washington, D.C., United States of America, for an invention for—"Surface condenser applicable to steam-engines and other purposes."—*Letters Patent sealed; specification filed by order.*

GEACH.
8th September 1857.

2344. WILLIAM GEACH, of Prospect Place, Old Bailey, Falmouth, for an invention for—"Improvements in machinery for propelling vessels." *Letters Patent sealed.*

HOWARD.
8th September 1857.

2345. WILLIAM HOWARD, of Great Queen Street, Lincoln's Inn Fields, in the County of Middlesex, Type Founder, for an invention for—"Improved apparatus for supplying air medicated or pure, to persons in confined apartments and other places requiring ventilation." *Provisional protection only.*

HOGA.
9th September 1857.

2346. STANISLAS HOGA, of 72, Charlotte Street, Fitzroy Square, in the County of Middlesex, Gentleman, for an invention for—"Improvements in apparatus for generating electricity, and for transmitting electric currents from place to place." *Provisional protection only.*

LETOURNEL.
9th September 1857.

2347. LOUIS LETOURNEL, of Paris (France), Gentleman, for an invention for—"An apparatus for weighing ships' anchors." *Provisional protection only.*

HÉDIARD.
LEVIEUX.
9th September 1857.

2348. ALEXANDER HÉDIARD, Civil Engineer, and SÉNATEUR LEVIEUX, Manufacturer, both of Paris, in the Empire of France, for an invention for—"An improved boiler for generating steam." *Provisional protection only.*

BERTOU.
9th September 1857.

2349. LEON LOUIS HONORÉ BERTOU, of the firm of Bertou and Pottier, of 36, Rue d'Hauteville, Paris, in the Empire of France, Wholesale and Export Stationers, for an invention for—"Improvements in the manufacture or production of ornamental wrappers or packings for fabrics or other goods." *Letters Patent sealed.*

LAVENDER.
9th September 1857.

2350. EDWARD LAVENDER, of 30, Aston Street, Limehouse, in the County of Middlesex, for an invention for—"An improvement in distilling products from coal." *Letters Patent sealed.*

EASTWOOD.
LLOYD.
9th September 1857.

2351. JAMES EASTWOOD, of Derby, Engineer, and SAMUEL LLOYD, Junior, Engineer, of Wednesbury, Staffordshire, for an invention for—"Improvements in machinery for shearing iron and other metals." *Letters Patent sealed.*

BACON.
9th September 1857.

2352. JOSHUA BUTTERS BACON, of 28, Brunswick Square, W.C., for an invention for—"Improvements in machinery for manufacturing horse shoe nails."—*A communication.* *Provisional protection only.*

LAWFORD.
10th September 1857.

2353. HENRY LAWFORD, of No. 31, Berner's Street, in the County of Middlesex, for an invention for—"An improvement in the manufacture of dining tables' expanding and contracting tops, applicable also to other expanding and contracting planes." *Letters Patent sealed.*

LESLIE.
10th September 1857.

2354. JOHN LESLIE, of Glasgow, in the County of Lanark, North Britain, Merchant, for an invention for—"Improvements in carding or preparing textile materials."—*A communication from A. Sentis and Sons.* *Provisional protection only.*

HONEYMAN.
10th September 1857.

2355. JOHN HONEYMAN the younger, of Glasgow, in the County of Lanark, North Britain, Architect, for an invention for—"Improvements in generating steam." *Provisional protection only.*

MILLE.
CANAL.
10th September 1857.

2356. MARIN JOSEPH ALPHONSE MILLE, Miner, and FRANÇOIS CANAL, both of Paris, in the Empire of France, for an invention for—"Improvements in producing gas." *Provisional protection only.*

JAMIESON.
10th September 1857.

2357. WILLIAM JAMIESON, of Ashton-under-Lyne, in the County of Lancaster, Machinist, for an invention for—"Certain improvements in looms for weaving figured fabrics." *Letters Patent sealed.*

FENTON.
THOMSON.
SNOWDON.
10th September 1857.

2358. JAMES FENTON, of Low Moor, in the County of York, Civil Engineer, WILLIAM THOMSON the younger, of Wakefield, in the same County, Railway Contractor, and THOMAS SNOWDON, of Middlesboro'-on-Tees, also in the same County, Iron Master, for an invention for—"Improvements in the permanent way of railways." *Letters Patent sealed.*

HOUCHIN.
10th September 1857.

2359. RICHARD HOUCHIN, of No. 7, Bridport Place, Hoxton, in the County of Middlesex, Engineer, for an invention for—"An improved press for punching, stamping, and embossing or otherwise for cutting out paper, leather or other materials, and for fixing and closing eyelets." *Provisional protection only.*

CLARK.
10th September 1857.

2360. WILLIAM CLARK, of Chancery Lane, in the County of Middlesex, Engineer, for an invention for—"Improvements in jacquard apparatus and in the pattern surfaces of such apparatus."—*A communication.* *Letters Patent sealed.*

DUNNICLIFF. 10th September 1857.

2361. JOHN DEARMAN DUNNICLIFF, of Nottingham, for an invention for—"Improvements in dividing and measuring breadths of lace and other fabrics." *Letters Patent sealed.*

HARRISON. 10th September 1857.

2362. JAMES HARRISON, of No. 4, Red Lion Square, in the County of Middlesex, for an invention for—"Improvements in apparatus for producing cold by the evaporation of volatile liquids in vacuo." *Letters Patent sealed.*

CROFTS. 10th September 1857.

2363. WILLIAM CROFTS, of Lenton Terrace, Park Side, Nottingham, for an invention for—"Improvements in the manufacture of various weavings in bobbin net, in twist lace machinery." *Letters Patent sealed.*

BRÜNINGHAUS. 10th September 1857.

2364. GUSTAV BRÜNINGHAUS, of Dortmund, in the Kingdom of Prussia, for an invention for—"Improvements in the treatment of iron ore (crude iron) for the production of iron and steel." *Letters Patent sealed.*

MENNONS. 11th September 1857.

2365. MARC ANTOINE FRANÇOIS MENNONS, of 39, Rue de l'Echiquier, Paris, in the Empire of France, and of 4, South Street, Finsbury, London, for an invention for —"An improved smoke condensing apparatus."—*A communication.* *Provisional protection only.*

SILVER. 11th September 1857.

2366. THOMAS SILVER, of Philadelphia, in the State of Pennsylvania, United States, Gentleman, for an invention for—"Machinery or apparatus for regulating or governing the paying out or delivery and the laying down of submarine or oceanic telegraph cables, parts of which are also applicable for taking and recording soundings, and for other purposes." *Provisional protection only.*

MILLS. 11th September 1857.

2367. JAMES MILLS, of Manchester, in the County of Lancaster, Machinist, for an invention for—"Certain improvements in the manufacture of "keys," "tapered pins," "split pins," and other similar articles employed in the construction of machinery." *Letters Patent sealed.*

Mᶜ CALLUM. 11th September 1857.

2368. WILLIAM PORTER MᶜCALLUM, of Birmingham, in the County of Warwick, Engineer, for an invention for—"Improvements in machinery used for stamping or raising metals." *Provisional protection only.*

SERVAN. 11th September 1857.

2369. ARISTIDE MICHEL SERVAN, of Paris, in the Empire of France, Civil Engineer, for an invention for—"Improvements in the cementation of iron combined with the manufacture of coke." *Provisional protection only.*

COLBECK. COLBECK. 11th September 1857.

2370. SIMEON COLBECK, and WILLIAM HENRY COLBECK, both of Batley, in the West Riding of the County of York, Woollen Cloth Manufacturers, for an invention for—"Improvements in looms." *Letters Patent sealed.*

LUNGLEY. 11th September 1857.

2371. CHARLES LUNGLEY, of Deptford Green Dockyard, Ship Builder, for an invention for—"Improved apparatus for directing, signalling, and indicating on board ships or vessels or other places." *Letters Patent sealed.*

FISHER. 12th September 1857.

2372. NICHOLAS FISHER, of Milton, in the County of Northampton, Farmer, for an invention for—"Improvements in machinery combining operations in preparing land for agricultural purposes." *Letters Patent sealed.*

DE LAPHALÈQUE. 12th September 1857.

2373. NICOLAS GUSTAVE INBERT DE LAPHALÈQUE, Gentleman, of Paris (France), for an invention for—"Improvements in violins and other stringed musical instruments of a similar nature." *Provisional protection only.*

WATSON. 12th September 1857.

2374. CHARLES WATSON, of 27, Alfred Place, Bedford Square, in the County of Middlesex, Gentleman, for an invention for—"An improved apparatus for curing certain bodily complaints." *Letters Patent sealed.*

BUTLER. PITTS. 12th September 1857.

2375. JOHN BUTLER, and JOSEPH PITTS, both of Stanningley, in the County of York, Engineers, for an invention for—"An improvement in fastening tyres on wheels for railway carriages." *Provisional protection only.*

EDWARDS. 12th September 1857.

2376. JOHN EDWARDS, of No. 77, Aldermanbury, in the City of London, for an invention for—"Improvements in railways to facilitate locomotive engines ascending inclines." *Provisional protection only.*

CLÖET. 12th September 1857.

2377. ISIDORE CHARLES CLÖET, of Ghent, in the Kingdom of Belgium, and of the Office for Patents, 77, Chancery Lane, in the County of Middlesex, for an invention for—"Machinery or apparatus for treating and dressing rice." *Letters Patent sealed.*

LEEMING. 12th September 1857. — **2378.** JAMES LEEMING, of Bradford, in the County of York, Machine Maker, for an invention for—"Improvements in looms for weaving." *Letters Patent sealed.*

GOSSAGE. 12th September 1857. — **2379.** WILLIAM GOSSAGE, of Widnes, in the County of Lancaster, Chemist, for an invention for—"Improvements in the manufacture of soda and potash." *Letters Patent sealed.*

WATERHOUSE. 14th September 1857. — **2380.** THOMAS WATERHOUSE, of Claremont Place, Sheffield, in the County of York, Gentleman, for an invention for—"Certain improvements in machinery or apparatus for applying steam and atmospheric air to actuating and governing forge and other hammers." *Letters Patent sealed.*

MARSH. 14th September 1857. — **2381.** THEOPHILUS MARSH, of the firm of Marsh, Brothers, and Company, of Ponds Works, Sheffield, in the County of York, Manufacturers, for an invention for—"An improved piston."—*A communication.* *Letters Patent sealed.*

JENKINS. 14th September 1857. — **2382.** WILLIAM JENKINS, of Miles Platting, near the City of Manchester, Locomotive Superintendent to the Lancashire and Yorkshire Railway Company, for an invention for—"Improvements in the furnaces or fireboxes of locomotive boilers to adapt them for the consumption of coal and the smoke arising therefrom." *Letters Patent sealed.*

GRAY. 14th September 1857. — **2383.** ALEXANDER GRAY, of Glasgow, in the County of Lanark, North Britain, Manager, for an invention for—"Improvements in the picking motion of power looms." *Letters Patent sealed.*

LEE. 14th September 1857. — **2384.** DAVID THORPE LEE, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"A new or improved washing-machine." *Letters Patent sealed.*

SLEDDON. MARSLAND. 14th September 1857. — **2385.** JOHN SLEDDON, Machinist, and JOSEPH MARSLAND, Engineer, both of Oldham, in the County of Lancaster, for an invention for—"Improvements in preventing incrustation in steam-boilers." *Provisional protection only.*

GRAY. 15th September 1857. — **2386.** ALEXANDER GRAY, of Glasgow, in the County of Lanark, North Britain, Manager, for an invention for—"Improvements in lubricating mechanism." *Letters Patent sealed.*

SHIERS. 15th September 1857. — **2387.** RICHARD SHIERS, Junior, of Oldham, in the County of Lancaster, Manufacturer, for an invention for—"Improvements in the manufacture of velvets." *Letters Patent sealed.*

ASHBY. 15th September 1857. — **2388.** JOHN ASHBY, of Croydon, in the County of Surrey, for an invention for—"Machinery for cleaning wheat and other grain or seed from smut and other injurious matters." *Letters Patent sealed.*

WALMSLEY. HOWARD. 15th September 1857. — **2389.** JOHN WALMSLEY, and THOMAS HOWARD, both of Accrington, in the County of Lancaster, for an invention for—"Improvements in machinery or apparatus for warping, sizing or dressing, and winding on yarns or threads." *Letters Patent sealed.*

GRAHAME. 15th September 1857. — **2390.** THOMAS GRAHAME, of Leamington, in the County of Warwick, for an invention for—"Improvements in grinding corn and in generating gas on inland waters." *Letters Patent sealed.*

BENSEN. 15th September 1857. — **2391.** GERD JACOB BENSEN, of Christian Street, St. George's in the East, Sugar Refiner, for an invention for—"An improvement in drying sugar." *Letters Patent sealed.*

ARCHER. 15th September 1857. — **2392.** THOMAS ARCHER, Junior, of Dunston, Gateshead, for an invention for—"Improvements in machinery for cutting off and heading lengths of metal, applicable to the manufacture of rivets and other articles." *Letters Patent sealed.*

DUMOULIN. 15th September 1857. — **2393.** ADRIEN JULES ALEXIS DUMOULIN, of Paris, in the Empire of France, Civil Engineer, for an invention for—"Improvements in heating apparatus." *Letters Patent sealed.*

ROBSON. 15th September 1857. — **2394.** THOMAS ROBSON, of 15, Critchill Place, Hoxton, in the County of Middlesex, Warehouseman, for an invention for—"Improvements in washing-machines." *Letters Patent sealed.*

ADSHEAD. PLATT. 16th September 1857. — **2395.** THOMAS SIDEBOTTOM ADSHEAD, of Stalybridge, in the County of Chester, Cotton Spinner, and JOHN PLATT, of Oldham, in the County of Lancaster, Mechanical Engineer, for an invention for—"Certain improvements in machinery for carding cotton and other fibrous materials." *Letters Patent sealed.*

GODET.
16th September 1857.

2396. PROSPER BERNARD GODET, of Paris, Gentleman, for an invention for—"A new mode of illustrating literary productions." *Provisional protection only.*

WICKS.
16th September 1857.

2397. RICHARD WICKS, of No. 21, Phœnix Street, Somers Town, in the County of Middlesex, Builder, for an invention for—"Improvements in furnaces." *Letters Patent sealed.*

DAVIES.
16th September 1857.

2398. GEORGE DAVIES, of No. 1, Serle Street, Lincoln's Inn, in the County of Middlesex, and No. 28, St. Enoch Square, in the City of Glasgow, Civil Engineer and Patent Agent, for an invention for—"Improvements in the manufacture of cloth or woven fabrics composed of a mixture of wool and a vegetable filamentous material not hitherto used for such a purpose."—*A communication from Guillaume Ahman, and Auguste de Villeneuve.* *Provisional protection only.*

SEWARD.
SEWARD.
16th September 1857.

2399. ABRAM SEWARD, and CHARLES SEWARD, of Lancaster, in the County of Lancaster, Manufacturers, for an invention for—"An improved boiler for heating and keeping up circulation in water." *Letters Patent sealed.*

LANCASTER.
16th September 1857.

2400. CHARLES WILLIAM LANCASTER, of New Bond Street, in the County of Middlesex, Gun Manufacturer, for an invention for—"An improvement in breech loading guns and in projectiles for the same."—*A communication.* *Letters Patent sealed.*

DE NORMANDY.
SIMPSON.
16th September 1857.

2401. ALPHONSE RENÉ LE MIRE DE NORMANDY, of 67, Judd Street, Brunswick Square, in the County of Middlesex, Analytical Chemist, and EDWARD THORNHILL SIMPSON, of the Calder Soap Works, Wakefield, in the County of York, for an invention for—"Improvements in the manufacture of soap." *Letters Patent sealed.*

WINDER.
16th Septembr 1857.

2402. JOHN HATHORNTHWAITE WINDER, of Sheffield, in the County of York, Manufacturer, for an invention for—"Improvements in rotary steam-engines and pumps." *Letters Patent sealed.*

MIDDLETON.
CHELLINGWORTH.
16th September 1857.

2403. WILLIAM MIDDLETON, Junior, Iron Founder, and THOMAS TERTIUS CHELLINGWORTH, Civil Engineer, both of Birmingham, in the County of Warwick, for an invention for—"Certain improvements in adjusting the sliding parts of chandeliers and gas pendants." *Letters Patent sealed.*

BROWN.
16th September 1857.

2404. RICHARD BROWN, of Glasgow, in the County of Lanark, North Britain, Gentleman, for an invention for—"Improvements in moulding or shaping metals and other materials." *Letters Patent sealed.*

GARRARD.
16th September 1857.

2405. ROBERT GARRARD, of Loman Street, Gravel Lane, Southwark, in the County of Surrey, Japanned Hat Manufacturer, for an invention for—"Improvements in the manufacture of japanned straw hats." *Provisional protection only.*

FONTAINEMOREAU.
16th September 1857.

2406. PETER ARMAND LE COMTE DE FONTAINEMOREAU, of London, Paris, and Brussels, Patent Solicitor, for an invention for—"An improved railway break."—*A communication.* *Letters Patent sealed.*

ALCAN.
16th September 1857.

2407. EMILE ALCAN, of Fore Street, Aldermanbury, London, Merchant, for an invention for—"An improved process for refining paraffine."—*A communication.* *Letters Patent sealed.*

LUEDEKE.
17th September 1857.

2408. JOHAN ERNST FRIDRICH LUEDEKE, of Birmingham, in the County of Warwick, Mechanical Engineer, for an invention for—"A new or improved motive-power engine." *Provisional protection only.*

HAYES.
17th September 1857.

2409. EDWARD HAYES, of Stony Stratford, in the County of Bucks, for an invention for—"Improvements in winding apparatus for hauling ploughs and other agricultural implements." *Letters Patent sealed.*

BARDEN.
ROCKWOOD.
HINKLEY.
CHILD.
17th September 1857.

2410. JOHN SMITH BARDEN, AARON WATKINS ROCKWOOD, HOLMES HINKLEY, and DANIEL FRANKLIN CHILD, all of the United States of America, for an invention for—"Certain improvements in engines for hydraulic or various other useful purposes."—*A communication.* *Complete specification; Letters Patent sealed.*

PULVERMACHER.
17th September 1857.

2411. ISAC LOUIS PULVERMACHER, of Paris, in the Empire of France, Engineer, for an invention for—"Improvements in apparatus for creating electric currents chiefly for medical purposes." *Letters Patent sealed.*

HACK. 17th September 1857. — **2412.** GEORGE FREDERICK HACK, of Hackney, in the County of Middlesex, Lithographer, for an invention for—"An improved cigar tube or holder for smoking cigars or tobacco." *Provisional protection only.*

GREAVES. 17th September 1857. — **2413.** HUGH GREAVES, of New Palace Yard, Westminster, Civil Engineer, for an invention for—"Improvements in constructing the permanent ways of railways." *Letters Patent sealed.*

SMITH. 18th September 1857. — **2414.** WILLIAM SMITH, of No. 10, Salisbury Street, Adelphi, Civil Engineer, for an invention for—"A novel machine or apparatus for engraving the metallic surfaces of printing rollers or cylinders."—*A communication from Mons' Pierre Elie Gaiffe, of Paris, in the Empire of France.* *Letters Patent sealed.*

BURLEIGH. 18th September 1857. — **2415.** BENJAMIN BURLEIGH, of 26, Great George Street, Westminster, for an invention for—"Improvements in the mode of laying submarine telegraphs." *Provisional protection only.*

WEBB. 18th September 1857. — **2416.** JOHN WEBB, of Bristol, in the City and County of Bristol, for an invention for—"An improved chaff cutter." *Provisional protection only.*

MUNRO. 18th September 1857. — **2417.** JOHN MAY MUNRO, Junior, of Bristol, in the City and County of Bristol, for an invention for—"An improved metal wheel stock." *Letters Patent sealed.*

SAVAGE. 18th September 1857. — **2418.** ROBERT WATSON SAVAGE, of Saint James' Square, in the County of Middlesex, Patent Spring Maker, for an invention for—"An improved spring and appliances for carriages and vehicles which can also be adapted to use on shipboard or otherwise, to maintain the equilibrium of articles placed on a platform provided with the said improved spring and appliances." *Provisional protection only.*

IMHOF. 18th September 1857. — **2419.** DANIEL IMHOF, of No. 547, Oxford Street, London, and County of Middlesex, Organ Builder and Pianoforte Manufacturer, for an invention for—"Certain improvements in machinery adapted to the exhausting or forcing of air, gases, or vapour, and in the application of such machinery to various useful purposes." *Letters Patent sealed, and specification filed, by order.*

DELEVANTE. 18th September 1857. — **2420.** CHARLOTTE DELEVANTE, of Kimbolton Place, Brompton, in the County of Middlesex, Spinster, for an invention for—"Improvements in bouquet holders." *Letters Patent sealed.*

WHITEHEAD. 18th September 1857. — **2421.** SAMUEL WHITEHEAD, of Bury, in the County of Lancaster, Tailor and Draper, for an invention for—"Improvements in trousers as part of male attire." *Letters Patent sealed.*

FAULKNER. 18th September 1857. — **2422.** SAMUEL FAULKNER, of Manchester in the County of Lancaster, Cotton Spinner, for an invention for—"Certain improvements in machinery or apparatus for carding cotton and other fibrous substances." *Letters Patent sealed.*

WATSON. 18th September 1857. — **2423.** RICHARD WATSON, of Galashiels, in the County of Selkirk, North Britain, Manufacturer, for an invention for—"Improvements in weaving." *Letters Patent sealed.*

WATSON. 18th September 1857. — **2424.** RICHARD WATSON, of Galashiels, in the County of Selkirk, North Britain, Manufacturer, for an invention for—"Improvements in the manufacture of heddles or healds for weaving." *Letters Patent sealed.*

WILSON. 18th September 1857. — **2425.** THOMAS WILSON, of Bradmore House, Chiswick, in the County of Middlesex, for an invention for—"An improved boot and shoe cleaning apparatus." *Letters Patent sealed.*

LICHTENSTADT. 18th September 1857. — **2426.** DAVID LICHTENSTADT, of Castle Street, in the County of Middlesex, Chemist, for an invention for—"Improvements in the manufacture of pulp of which paper and other fabrics are composed." *Letters Patent sealed.*

ANDERSON. 18th September 1857. — **2427.** SIR JAMES CALEB ANDERSON, of Fermoy, in the County of Cork, Ireland, Baronet, for an invention for—"Improvements in locomotives and other carriages." *Provisional protection only.*

DERING. 18th September 1857. — **2428.** GEORGE EDWARD DERING, of Lockleys, in the County of Hertford, for an invention for—"Improvements in laying down electric telegraph cables, in obtaining soundings, and in ascertaining the position of and raising submerged electric telegraph cables and other bodies." *Letters Patent sealed.*

SNELL.
18th September 1857.

2429. HENRY SAXON SNELL, of 36, Chancery Lane, for an invention for—"Improvements in apparatus for retarding omnibuses and other carriages."
Provisional protection only.

WEBSTER.
18th September 1857.

2430. THOMAS WEBSTER, of No. 13, Place du Hâvre, in the City of Paris, France, Gentleman, for an invention for—"Improvements in the permanent way of railways."—*A communication from the inventor the late Charles Gabriel Lemasson, of the Chemin de fer du Nord, France.* *Letters Patent sealed.*

BURTON.
PYE.
18th September 1857.

2431. JOHN WATSON BURTON, of Ipswich, and GEORGE PYE, of the same place, and of No. 80, Lombard Street, in the City of London, Flax Manufacturers, for an invention for—"Improvements in the construction of rollers used for pressing fabrics and fibrous and other materials." *Letters Patent sealed.*

BESSEMER.
18th September 1857.

2432. HENRY BESSEMER, of Queen Street Place, New Cannon Street, in the City of London, for an invention for—"Improvements in the manufacture of cast-steel." *Letters Patent sealed.*

RIGG.
RIGG.
18th September 1857.

2433. ARTHUR RIGG, senior, and ARTHUR RIGG, junior, both of Chester, for an invention for—"Improvements in preparing, sawing, planing, grooving, tongueing, moulding, mortising and tenoning wood, part of which is applicable to preparing other vegetable substances." *Letters Patent sealed.*

NAYLOR.
19th September 1857.

2434. WILLIAM NAYLOR, of Bradford, in the West Riding of the County of York, Manufacturer, for an invention for—"Improvements in power looms for weaving worsted, cotton, silk, woollen, and other fibrous substances."
Provisional protection only.

LEVERSON.
19th September 1857.

2435. MONTAGUE RICHARD LEVERSON, of No. 12, St. Helen's Place, in the City of London, for an invention for—"Improvements in the preparation of food for cattle."—*A communication from Frederick Phillipe Auberton, of Paris, in the Empire of France.* *Letters Patent sealed.*

CAVALERIE.
19th September 1857.

2436. FRANÇOIS CAVALERIE, of 39, Rue de l'Echiquier, Paris, in the Empire of France, and of 4, South Street, Finsbury, London, for an invention for—"Improvements in motive-power engines." *Provisional protection only.*

JAMES.
19th September 1857.

2437. WILLIAM HENRY JAMES, of the Old Kent Road, in the Parish of Camberwell, in the County of Surrey, Civil Engineer, for an invention for—"Certain improvements in steam vessels, parts of which improvements are applicable to sailing and other vessels." *Letters Patent sealed.*

BROOMAN.
19th September 1857.

2438. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, E.C., Patent Agent, for an invention for—"A method of decomposing soapy wash-waters used in the washing and scouring of wools and cloths, of separating therefrom fatty matters held therein, and of treating such fatty matters."—*A communication from François Picard.* *Provisional protection only.*

PEAKE.
19th September 1857.

2439. WILLIAM HENRY PEAKE, of Liverpool, for an invention for—"Improvements in the construction of beams, girders, and bridges." *Letters Patent sealed.*

ELEY.
19th September 1857.

2440. WILLIAM THOMAS ELEY, of Broad Street, Golden Square, for an invention for—"Improvements in percussion caps." *Provisional protection only.*

ORMSON.
19th September 1857.

2441. HENRY ORMSON, of Stanley Bridge, King's Road, Chelsea, Horticultural Builder and Hot Water Apparatus Manufacturer, for an invention for—"An improvement in the manufacture of cast tubular boilers." *Letters Patent sealed.*

MINNITT.
19th September 1857.

2442. JOHN MINNITT, of the Town of Nottingham, Tallow Chandler, for an invention for—"An improvement in extracting grease from animal refuse resulting from the manufacture of glue and from fellmongers' processes." *Letters Patent sealed.*

JOLY.
21st September 1857.

2443. PIERRE FRANÇOIS JOLY, Civil Engineer, of Paris, in the Empire of France, for an invention for—"Improvements in apparatus for generating and superheating steam." *Letters Patent sealed.*

GRAY.
21st September 1857.

2444. ROBERT GRAY, of Sheffield, in the County of York, Draper, for an invention for—"An improved band or cord to be employed for distending or expanding skirts or similar wearing apparel." *Provisional protection only.*

SCHAUB. 21st September 1857.

2445. GEORGE SCHAUB, of Birmingham, in the County of Warwick, Electro-Metallurgist, for an invention for—"A new or improved manufacture of rollers or cylinders with patterns or designs thereon for printing fabrics and other materials." *Letters Patent sealed.*

PICOT. 21st September 1857.

2446. LOUIS FRANÇOIS PICOT, of Toulon, in the Empire of France, Mechanician in the Imperial Navy, for an invention for—"Improvements in salinometers or instruments for indicating the saturation of water in marine boilers." *Provisional protection only.*

OWEN. 21st September 1857.

2447. EDMUND LLOYD OWEN, of Wolverhampton, in the County of Stafford, Mineral and Metal Merchant, for an invention for—"A new or improved method of propelling vessels." *Provisional protection only.*

WEST. 21st September 1857.

2448. ELIZABETH BURTON WEST, of Kent Terrace, Regent's Park, London, lately of 80, St. Stephen's Green, Dublin, and Eyrecourt, County of Galway, Ireland, for an invention for—"Improvements in the manner of preparing and applying materials used in brewing to that purpose, and in the various processes and apparatus used in connection with the same, and for novel apparatus connected with the same."—*A communication.* *Letters Patent sealed.*

ABSTERDAM. 21st September 1857.

2449. JOHN ABSTERDAM, of the State of Massachusetts, of the United States of America, for an invention for—"A certain new and useful improvement in electric telegraphic cables." *Letters Patent sealed.*

PATERSON. 21st September 1857.

2450. JOHN PATERSON, of Wood Street, in the City of London, Manufacturer, for an invention for—"An improvement in clasps, buckles and other like fastenings." *Provisional protection only.*

FORRESTER. 22nd September 1857.

2451. DANIEL FORRESTER, of Forest Villa, Mortimer Road, Kingsland, in the County of Middlesex, for an invention for—"An improved fastening for securing watches, &c. worn on the person, whereby the same are rendered safe from robbery,—to be called Forrester's patent watch and property protector." *Letters Patent sealed.*

WORSSAM. 22nd September 1857.

2452. GEORGE JARVIS WORSSAM, of No. 3, Oakeley Crescent, City Road, in the Parish of Saint Luke's, in the County of Middlesex, for an invention for—"An ink self supplying penholder." *Provisional protection only.*

THEILER. 22nd September 1857.

2453. MEINRAD THEILER, of 1, North Terrace, Westminster Road, London, Mechanic, for an invention for—"A direct printing telegraph without relais and local battery."—*A communication from Franz Theiler, of Einsiedeln, in Switzerland.* *Letters Patent sealed.*

HENRY. 22nd September 1857.

2454. MICHAEL HENRY, of 77, Fleet Street, in the City of London, Patent Agent, for an invention for—"Improvements in the mode of transmitting motion, especially applicable to apparatus employed in navigation."—*A communication from Mr. Robert Tissot.* *Provisional protection only.*

FORD. 22nd September 1857.

2455. JOHN FORD, of Stepney, in the County of Middlesex, Gentleman, for an invention for—"An improved apparatus for marking or scoring at whist and other games, which may be adapted for otherwise assisting the memory of the players." *Provisional protection only.*

LAWSON. 22nd September 1857.

2456. RAMSEY LAWSON, of Manchester, in the County of Lancaster, Engineer, for an invention for—"Certain improvements in apparatus for regulating the admission of air to furnaces." *Letters Patent sealed.*

HUGHES. 22nd September 1857.

2457. HESKETH HUGHES, of Wellington Street, in the County of Middlesex, Engineer, for an invention for—"Improvements in machinery for cutting, embossing, and stamping." *Letters Patent sealed.*

RENNIE. 22nd September 1857.

2458. GEORGE RENNIE, of the firm of George Rennie and Sons, of the Albion Iron Works, Holland Street, Marine Engine Builders, for an invention for—"Improvements in vessels for war and revenue purposes." *Letters Patent sealed.*

NEWTON. 22nd September 1857.

2459. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"Improvements in obtaining photographic pictures."—*A communication from David A. Woodward, of Baltimore, in the United States of America.* *Letters Patent sealed.*

NEWTON. 22nd September 1857.

2460. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improved machinery for forging metals."—*A communication.* *Letters Patent sealed.*

CLARK. MOORE. 22nd September 1857.

2461. WILLIAM STETTINIUS CLARK, and BENJAMIN MOORE, of No. 133, High Holborn, in the County of Middlesex, for an invention for—"Improvements in machines for cutting splints for friction matches."—*A communication.* *Provisional protection only.*

COUNT DE BYLANDT. 22nd September 1857.

2462. ALFRED, COUNT DE BYLANDT, of Michael's Grove, Brompton, in the County of Middlesex, for an invention for—"Improvements in propelling ships or other navigable vessels." *Provisional protection only.*

BAKEWELL. 23rd September 1857.

2463. FREDERICK COLLIER BAKEWELL, of No. 6, Haverstock Terrace, Hampstead, in the County of Middlesex, for an invention for—"Improvements in the preparation for use of caustic alkalies."—*A communication from George Thompson, of North America.* *Letters Patent sealed.*

OURY. 23rd September 1857.

2464. PIERRE OURY, of No. 8, Hatton Garden, in the City of London, Cap Manufacturer, for an invention for—"An improved apparatus and method for impressing or marking figures or designs upon silk, cotton or other suitable substances employed for lining caps, hats and other similar articles."—*Provisional protection only.*

FONTAINEMOREAU. 23rd September 1857.

2465. PETER ARMAND LE COMTE DE FONTAINEMOREAU, of London, Paris, and Brussels, Patent Solicitor, for an invention for—"An improved method of marking paper for postal purposes."—*A communication.* *Provisional protection only.*

MURRAY. POLLARD. 23rd September 1857.

2466. ADAM MURRAY, of Bradford, near Manchester, in the County of Lancaster, Manufacturer, and WILLIAM POLLARD, of the same place, Weaver, for an invention for—"Improvements in the manufacture of textile fabrics." *Provisional protection only.*

DE LA HAYE. BLOOM. 23rd September 1857.

2467. JOHN DE [LA HAYE, Submarine Engineer, and MARK BLOOM, Silk and Fringe Manufacturer, both of Salford, near Manchester, in the County of Lancaster, for an invention for—"Improvements in laying down submarine telegraphs." *Provisional protection only.*

POWER. 23rd September 1857.

2468. WILLIAM POWER, of Rotherhithe, in the County of Surrey, Baker, for an invention for—"Improvements in steam-engine boiler furnaces and other furnaces, for smoke prevention." *Provisional protection only.*

JOHNSON. 24th September 1857.

2469. WILLIAM BECKETT JOHNSON, Manager for Messieurs Ormerod and Son, of Manchester, in the County of Lancaster, Engineers, for an invention for—"Improvements in raising and lowering trucks, carriages, engines, or other such railway appendages, from one level to another." *Letters Patent sealed.*

SINGLETON. 24th September 1857.

2470. THOMAS SINGLETON, of Over Darwen, in the County of Lancaster, for an invention for—"Improvements in looms." *Provisional Protection only.*

LAUGÈRE. 24th September 1857.

2471. AUGUSTIN VRAIN ADRIEN LAUGÈRE, of Orleans, France, for an invention for—"Improvements in windmills." *Letters Patent sealed.*

SAUNDERS. 24th September 1857.

2472. THOMAS SAUNDERS, of No. 22, Pump Row, Old Street Road, Saint Luke's, in the County of Middlesex, Locksmith, for an invention for—"An improved tumbler key and lever tumbler lock." *Letters Patent sealed; no specification filed.*

PATTERSON. 24th September 1857.

2473. ABRAHAM BOOTH PATTERSON, of the City of Baltimore, in the State of Maryland, and United States of America, for an invention for—"An improved mode of laying submarine cables." *Provisional protection only.*

BARBER. 25th September 1857.

2474. JOHN BARBER, of the City of Manchester, in the County of Lancaster, Machinist, for an invention for—"Improvements in machinery or apparatus for manufacturing rollers or cylinders used for printing and embossing woven fabrics, paper, leather, and other materials." *Letters Patent sealed.*

KELSHAW. WILKINSON. 25th September 1857.

2475. JOHN KELSHAW, and JOHN WILKINSON, of Elland, in the County of York, Machine Makers and Iron Founders, for an invention for—"Improvements in self-acting couplings for railway carriages and engines." *Letters Patent sealed.*

NEWTON. 25th September 1857.

2476. LEOPOLD NEWTON, of Oldham, in the County of Lancaster, Cotton Spinner, for an invention for—"Improvements in the mode of placing tubes on the spindles used in spinning machinery." *Letters Patent sealed.*

FORTESCUE. 25th September 1857.

2477. JOHN FORTESCUE, of No. 3ª, Charles Street, Middlesex Hospital, in the County of Middlesex, Baker, for an invention for—"Improvements in the construction of domestic or other fire-places, for the purpose of consuming smoke and saving fuel." *Provisional protection only.*

GREGORY. CRAYMER. 25th September 1857.

2478. JAMES GREGORY, of the Parish of Bitton, in the County of Gloucester, Engineer, and WILLIAM CRAYMER, of the City of Bristol, Carver, for an invention for—"Feathering and adjusting screw propellers to be used in propelling vessels." *Provisional protection only.*

NEWTON. 25th September 1857.

2479. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"Improvements in rock drilling machinery."—*A communication.* *Letters Patent sealed.*

JACKSON. 25th September 1857.

2480. JAMES JACKSON, a Partner in the firm James Jackson and Son and Company, of St. Seurin-sur-l'Isle, in the Department of the Gironde, France, Steel Manufacturers, for an invention for—"Improvements in the manufacture of tyres for railway and other wheels." *Letters Patent sealed.*

CHUBB. 25th September 1857.

2481. JOHN CHUBB, of Saint Paul's Church Yard, in the City of London, for an invention for—"Improvements in the construction of iron safes and doors for strong rooms." *Letters Patent sealed.*

ROBINSON. 25th September 1857.

2482. BOYDELL ROBINSON, of 25, Gilbert Street, Grosvenor Square, in the County of Middlesex, Laceman, for an invention for—"Improvements in the bodies and jackets of ladies' dresses." *Provisional protection only.*

BALBONI. 26th September 1857.

2483. PASCAL BALBONI, of Florence, Italy, now residing No. 12, King William Street, Strand, London, for an invention for—"A marine, submarine, and aërostatic propeller, being a new mechanism for propelling steam vessels on and in the water, applicable also to aërostatic purposes, combining speed and safety in steam boats, and giving the power of directing balloons." *Provisional protection only.*

LEWIS. 26th September 1857.

2484. JOSEPH LEWIS, of Salford, in the County of Lancaster, Engineer, for an invention for—"Certain improvements in machinery or apparatus for making bricks, tiles and other similar articles, and also in the machinery for preparing clay for the same manufacture." *Letters Patent sealed.*

WATSON. 26th September 1857.

2485. RICHARD WATSON, of Galashiels, in the County of Selkirk, North Britain, Manufacturer, for an invention for—"Improvements in weaving." *Letters Patent sealed.*

HENRY. 26th September 1857.

2486. MICHAEL HENRY, of 77, Fleet Street, in the City of London, Patent Agent, for an invention for—"Improvements in the manufacture of artificial wine, vinegar, and brandy, part of which improvements is applicable in the manufacture of brandy generally."—*A communication.* *Letters Patent sealed.*

SPEIGHT. 26th September 1857.

2487. GEORGE SPEIGHT, of 19, Woodbridge Street, Clerkenwell, in the County of Middlesex, Hair Worker, for an invention for—"Improved head plaits, foundations for wigs, bracelets, and other plaited ornaments for personal wear." *Letters Patent sealed.*

CRICK. CRICK. 26th September 1857.

2488. THOMAS CRICK, and JOHN THRONE CRICK, of Leicester, Boot Manufacturers, for an invention for—"Improvements in the manufacture of boots, shoes, and slippers." *Letters Patent sealed.*

BROAD. 28th September 1857.

2489. JAMES BROAD, Coach Spring and Carriage Lamp Maker, of 149, and 150, Drury Lane, Holborn, for an invention for—"The construction of a lamp with two burners and two wicks to produce one flame or two flames according to its regulation, by generation of gas from all and every sort of oils or spirits, naphthas, resinous and tarry substances, and also from petroleum or earth oils." *Provisional protection only.*

KAY. 28th September 1857.

2490. ROBERT KAY, of Castleton Print Works, near Rochdale, in the County of Lancaster, Calico Printer, for an invention for—"Certain improvements in machinery or apparatus for printing calico and other textile fabrics." *Letters Patent sealed; no specification filed.*

ROBY. 28th September 1857.

2491. GEORGE ROBY, of Wigan, in the County of Lancaster, Shoemaker, for an invention for—"Improvements in machinery or apparatus for raising water and employing the same as a motive-power." *Provisional protection only.*

BESTWICK. 28th September 1857.

2492. WILLIAM BESTWICK, of Salford, near Manchester, in the County of Lancaster, Braid Manufacturer, for an invention for—"An improved material suitable for skirt springs and other similar purposes." *Provisional protection only.*

BOWLER. 28th September 1857.

2493. WILLIAM BOWLER, of 4, Seymour Place, Stapleton Road, Bristol, for an invention for—"Improvements in the manufacture of hats and other coverings for the head." *Letters Patent sealed.*

QUIN. 28th September 1857.

2494. RICHARD QUIN, of 5, Rodney Street, Pentonville, of the firm of Moran and Quin, of 65, Poland Street, Oxford Street, in the County of Middlesex, for an invention for—"Improvements in the construction of cases suitable for containing photographic and other pictures." *Provisional protection only.*

BLOUNT. 28th September 1857.

2495. EDOUARD MARCELLUS BLOUNT, of Paris, in the Empire of France, Gentleman, for an invention for—"Improvements in distilling." *Provisional protection only.*

SMITH. 29th September 1857.

2496. EARLE HARRY SMITH, of the City and State of New York, United States of America, for an invention for—"Improvements in sewing-machines." *Provisional protection only.*

LEJEUNE. 29th September 1857.

2497. EMILE ALBERT LEJEUNE, of the firm of Lejeune and Brunessaux, of Paris, France, and now of No. 4, South Street, Finsbury, London, Manufacturer, for an invention for—"An improved crupper.—*Partly a communication from Joseph Jules Brunessaux, of Paris.* *Provisional protection only.*

WHITE. BULL. 29th September 1857.

2498. WILLIAM WALL WHITE, and WILLIAM BULL, of No. 9, Saint John's Square, Clerkenwell, in the County of Middlesex, Merchants, for an invention for—"Improvements in rollers applicable for blinds, maps, and other purposes." *Letters Patent sealed.*

BAYLISS. 29th September 1857.

2499. WILLIAM BAYLISS, of the firm of W. and M. Bayliss and Company, Flat and Round Chain and Chain Cable Manufacturers, of Monmore Green, Wolverhampton, in the County of Stafford, for an invention for—"Certain improvements in the manufacture of chain cable." *Letters Patent sealed.*

SMITH. 29th September 1857.

2500. STEPHEN SMITH, of Manchester, in the County of Lancaster, Tailor and Draper, for an invention for—"Certain improvements in coffins."—*A communication.* *Letters Patent sealed.*

BROOMAN. 29th September 1857.

2501. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, E.C., Patent Agent, for an invention for—"Improvements in raising and lowering weights and bodies in mines and other like places, in ventilating mines and other like places, and in extracting water therefrom."—*A communication from M. Trautmann.* *Provisional protection only.*

WILLIAMS. 29th September 1857.

2502. RICHARD WILLIAMS, of 8, Bishop's Road, Victoria Park, in the County of Middlesex, for an invention for—"The manufacturing of soap with materials hitherto not introduced by any person in the chemical combination of various ingredients when manufactured known by the name of soap." *Provisional protection only.*

PEARCE. 29th September 1857.

2503. JOHN CHARLES PEARCE, of Bowling, near Bradford, in the County of York, Engineer, for an invention for—"Improvements in apparatus used in hot pressing, and in the means of manufacturing parts of such apparatus." *Letters Patent sealed.*

WELCH. 29th September 1857.

2504. JAMES WELCH, of Southall, in the County of Middlesex, for an invention for—"Improvements on carriages and portable railways to facilitate their movement on common roads and other surfaces." *Provisional protection only.*

CLARKE, 29th September 1857.

2505. SAMUEL CLARKE, of 55, Albany Street, Regent's Park, in the County of Middlesex, for an invention for—"Improvements in apparatus for burning night lights or mortars." *Letters Patent sealed.*

NEWTON. 29th September 1857.

2506. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improved apparatus for igniting gas or other lamps."—*A communication.* *Letters Patent sealed.*

NEWTON. 29th September 1857.

2507. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improved apparatus for measuring gas."—*A communication from Mr. Alfred Nobel, of St. Petersburg.* *Letters Patent sealed.*

BODMER.
29th September 1857.

2508. RUDOLPH BODMER, of 2, Thavies Inn, Holborn, in the City of London, for an invention for—"Improvements in machinery or apparatus for winding, unwinding, reeling, cleansing, measuring, sorting, weighing, twisting, and doubling silk and other fibrous substances."—*A communication from Friederich Buser, of Bâle, in Switzerland.*
Complete specification; Letters Patent sealed.

JOHNSON.
30th September 1857.

2509. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of 166, Buchanan Street, in the City of Glasgow, North Britain, Gentleman, for an invention for—"An improved hand saw."—*A communication from Jackson Gorham, of Bairdstown, in the State of Georgia, United States of America.*
Letters Patent sealed.

BOURET.
30th September 1857.

2510. AUGUSTE BOURET, of Paris, Gentleman, for an invention for—"Improvements in Pecqueur's loom for manufacturing fishing and other nets."
Provisional protection only.

WAINWRIGHT.
BRADBURY.
30th September 1857.

2511. GEORGE JAMES WAINWRIGHT, and CHARLES TIMOTHY BRADBURY, of Dukinfield, in the County of Chester, Cotton Spinners, for an invention for—"Improvements in machinery or apparatus for making or manufacturing tubes or partial tubes used in spinning and doubling machinery, and for holding the same ready for use, part of which machinery is applicable to making pens, penholders, and similar purposes."
Provisional protection only.

PAISLEY.
BERTRAM.
30th September 1857.

2512. JAMES PAISLEY, of Hele Works, in the County of Devon, Millwright, and GEORGE BERTRAM, of Edinburgh, in the County of Midlothian, Engineer, for an invention for—"Improvements in the manufacture of paper."
Letters Patent sealed.

THOMPSON.
NICHOLSON.
30th September 1857.

2513. EDWIN THOMPSON, of the Phœnix Foundry, York, and WILLIAM JOSEPH NICHOLSON, of Queen Street, York, for an invention for—"An improvement in railway switches."
Letters Patent sealed.

CREEKE.
30th September 1857.

2514. CHRISTOPHER CRABB CREEKE, of Bournemouth, in the County of Hants, Architect and Surveyor, for an invention for—"Improvements in the construction or manufacture of earthenware pipes."
Letters Patent sealed.

FIRTH.
30th September 1857.

2515. JOSEPH FIRTH, of Crosland Moore, near Huddersfield, for an invention for—"An improvement in metallic pistons."
Provisional protection only.

SANDILANDS.
30th September 1857.

2516. WILLIAM SANDILANDS, of Inveresk, in the County of Midlothian, North Britain, Smith, for an invention for—"Improvements in chimney cans or apparatus for promoting draft in chimnies."
Letters Patent sealed.

HENDERSON.
30th September 1857.

2517. WILLIAM HENDERSON, of Bristol, Chemist, for an invention for—"Improvements in treating certain ores and alloys, and in obtaining products therefrom, and in recovering or reproducing all or part of the materials used."—*Letters Patent sealed.*

HARRIS.
30th September 1857.

2518. JAMES HARRIS, of Hanwell, in the County of Middlesex, Engineer, for an invention for—"Improvements in and connected with cocks and valves, especially adapted to preventing the bursting of water pipes from frost."—*Letters Patent sealed.*

WARD.
1st October 1857.

2519. JAMES WARD, of 36, Church Street, Liverpool, in the County of Lancaster, Glass and China Dealer, for an invention for—"Improvements in pumps applicable for mines, ships, and other purposes."
Letters Patent sealed.

LONG.
LONG.
1st October 1857.

2520. JAMES LONG, and JOSEPH LONG, of Little Tower Street, in the City of London, Philosophical Instrument Makers, for an invention for—"An improved method of and apparatus for ascertaining and registering the depth of water and the pressure of steam."
Letters Patent sealed.

LEIGH.
1st October 1857.

2521. EVAN LEIGH, of the City of Manchester, in the County of Lancaster, Mechanical Engineer, for an invention for—"Certain improvements in machinery or apparatus used in spinning and preparing cotton and other fibrous substances, parts of which are also applicable to machinery or apparatus generally."
Letters Patent sealed.

JENNINGS.
1st October 1857.

2522. JOSIAH GEORGE JENNINGS, of Holland Street, Blackfriars, Sanatory Engineer, for an invention for—"Improvements in the manufacture of articles used for forming flues and air and water passages in buildings."
Letters Patent sealed.

NAPIER.
1st October 1857.

2523. JAMES MURDOCH NAPIER, of Vine Street, York Road, in the County of Surrey, Engineer, for an invention for—"Improvements in printing-machines."
Letters Patent sealed.

HAMILTON. 1st October 1857.

2524. SYDNEY DOOLAN HAMILTON, of No. 3, Great James Street, Bedford Row, in the County of Middlesex, Solicitor, for an invention for—"Improvements in jacquard machinery."—*A communication from Eugène Vincenzi, Mechanical Engineer, of Lyons, in the Empire of France.* *Letters Patent sealed.*

DE CRISTOFORIS. 2nd October 1857.

2525. LUIGI DE CRISTOFORIS, from the City of Milan, in Italy, now of 67, Lower Thames Street, London, for an invention for—"Regulating the ascent and descent of the railway locomotives on inclined planes, which is to be called 'the De Cristoforis ascending and descending locomotive apparatus.'" *Provisional protection only.*

DAVIES. 2nd October 1857.

2526. SAMUEL DAVIES, of Brilley, in the County of Hereford, Mechanic, for an invention for—"Improvements in apparatus for heating the feed water of steam-boilers." *Provisional protection only.*

ILLINGWORTH. ILLINGWORTH. 2nd October 1857.

2527. ALFRED ILLINGWORTH, and HENRY ILLINGWORTH, of Bradford, in the County of York, Spinners, for an invention for—"Improvements in machinery or apparatus for combing wool and other fibrous substances." *Letters Patent sealed.*

SHAKESPEAR. 2nd October 1857.

2528. HENRY JOHN CHILDE SHAKESPEAR, Captain in the Honourable East India Company's Service, for an invention for—"An improvement in the construction of carriages for military and other purposes." *Provisional protection only.*

WILLWAY. 2nd October 1857.

2529. JOHN SWEET WILLWAY, of the City of Bristol, Gas Engineer, for an invention for—"An improved apparatus to act as a gas valve."—*Letters Patent sealed.*

SHIBLES. 2nd October 1857.

2530. GEORGE WEBSTER SHIBLES, of Thomas Town, Maine, in the United States of America, Mariner, for an invention for—"Improvements in arranging and reefing the sails of ships." *Letters Patent sealed.*

KERR. 2nd October 1857.

2531. PETER KERR, of Paisley, in the County of Renfrew, North Britain, Manufacturer, for an invention for—"Improvements in preparing and finishing threads or yarns." *Letters Patent sealed.*

ENGLAND. 2nd October 1857.

2532. JOSEPH ENGLAND, of Beverley, in the County of York, Machinist, for an invention for—"Improvements in washing-machines." *Provisional protection only.*

MACPHERSON. 2nd October 1857.

2533. ALEXANDER MACPHERSON, of Carstairs, in the County of Lanark, North Britain, Joiner, for an invention for—"Improvements in the manufacture of fences." *Provisional protection only.*

JOHNSON. 2nd October 1857.

2534. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of 166, Buchanan Street, in the City of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in the construction of iron bridges."—*A communication from Francis C. Lowethorp, of the City of Trenton, in the County of Mercer, in the State of New Jersey, and the United States of America.* *Provisional protection only.*

GREEN. 3rd October 1857.

2535. ROBERT GREEN, of Crawshaw Booth, near Rawtenstall, in the County of Lancaster, Joiner, for an invention for—"Improvements in raising or forcing liquids." *Letters Patent sealed.*

DYSON. SHIRT. SHIRT. 3rd October 1857.

2536. JOHN DYSON, EDWIN WILKINSON SHIRT, and HENRY SHIRT, trading under the style or firm of Dyson, Shirt, and Company, Steel Rollers, of Finsley Works, near Sheffield, in the County of York, for an invention for—"Improved straps or driving bands for machinery." *Provisional protection only.*

RILEY. RILEY. 3rd October 1857.

2537. WILLIAM RILEY, and THOMAS RILEY, of Greetland, near Halifax, in the County of York, Dyers, for an invention for—"Certain improved means, machinery or apparatus for "saving" or covering the lists of textile fabrics, previous to the dyeing of such fabrics." *Letters Patent sealed.*

MOLINEAUX. NICHOLS. 3rd October 1857.

2538. JOHN ATHERTON MOLINEAUX, and JOSEPH NICHOLS, of Brighton, in the County of Sussex, for an invention for—"Improvements in pistons for steam-engine and other cylinders." *Letters Patent sealed.*

CHOWEN. 3rd October 1857.

2539. GEORGE CHOWEN, of Dippertown, Lewdown, Exeter, in the County of Devon, Gentleman, for an invention for—"Improvements in the arrangement and construction of fog, wreck, and other buoys. *Provisional protection only.*

SEYFERTH. 3rd October 1857.

2540. AUGUSTUS SEYFERTH, of Paris, in the Empire of France, for an invention for—"The employment of sulphuret of carbon for motive purposes, and engines and apparatuses for applying and regenerating the same." *Provisional protection only.*

NEWTON. 3rd October 1857.

2541. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Certain improvements in machinery for making mould candles."—*A communication.* *Letters Patent sealed.*

PURSALL. 3rd October 1857.

2542. WILLIAM PURSALL, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"Improvements in the manufacture of eyelets." *Provisional protection only.*

STOBBS. HALL. 3rd October 1857.

2543. JOHN STOBBS, of Sidney Street, North Shields, and GEORGE ROGER HALL, of Linskill Street, North Shields, in the County of Northumberland, for an invention for—"Improvements in pumps for raising water and other liquids." *Provisional protection only.*

DUNCAN. JELLICORSE. 5th October 1857.

2544. GEORGE DUNCAN, and WILLIAM JOHN JELLICORSE, trading as Copartners, Printing Machine Manufacturers, and Engineers, of Litchfield Street, Birmingham, in the County of Warwick, for an invention for—"An improved smoke consuming furnace." *Provisional protection only.*

RUBERY. 5th October 1857.

2545. JOHN RUBERY, Umbrella and Parasol Furniture Manufacturer, of Birmingham, in the County of Warwick, for an invention for—"Improvements in the manufacture of certain parts of umbrella and parasol furniture."—*Letters Patent sealed.*

REEVES. 5th October 1857.

2546. CHARLES REEVES, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"A new or improved sword." *Letters Patent sealed.*

RICHARDSON. RICHARDSON. 5th October 1857.

2547. WILLIAM RICHARDSON, of No. 5, Ranelagh Grove, Pimlico, in the County of Middlesex, and GEORGE RICHARDSON, of No. 2, Copenhagen Street West, Islington, in the said County of Middlesex, for an invention for—"Partly or wholly stopping wheels of carriages of every description when in motion, and such break or breaks to be applied by the motive-power." *Letters Patent sealed.*

ATKINSON. 5th October 1857.

2548. ROBERT ATKINSON, of Corporate Buildings, Newcastle-on-Tyne, in the Town and County of the same, Shirt Maker, for an invention for—"Improvements in garments as part of male attire." *Letters Patent sealed.*

DAVIES. 5th October 1857.

2549. GEORGE DAVIES, of No. 1, Serle Street, Lincoln's Inn, in the County of Middlesex, and of No. 28, St. Enoch Square, in the City of Glasgow, Civil Engineer and Patent Agent, for an invention for—"Improvements in the combustion of coal without smoke, which improvements are also applicable to the combustion of other kinds of fuel."—*A communication from Jacques Léon Fardieu, Engineer, of Limoges, in the Department of Haute Vienne, France.* *Provisional protection only.*

HENRY. 5th October 1857.

2550. MICHAEL HENRY, of 77, Fleet Street, in the City of London, Patent Agent, for an invention for—"Improvements in apparatus or machines for raking and scraping or cleaning roads, streets, ways, and places."—*A communication from Mr. Marmet.* *Letters Patent sealed.*

BECKERS. 5th October 1857.

2551. LOUIS BECKERS, of New York, in the United States of America, Chemist, for an invention for—"Improvements in apparatuses for exhibiting daguerreotype, photographic, and other stereoscopic views and pictures."—*A communication.* *Provisional protection only.*

COMBE. 5th October 1857.

2552. JAMES COMBE of Belfast, for an invention for—"Improvements in machinery for heckling and preparing flax and other fibrous substances." *Letters Patent sealed.*

HARVEY. 5th October 1857.

2553. JOHN PENFORD HARVEY, of Spalding, in the County of Lincoln, Miller, for an invention for—"Improved machinery for crushing land or clods." *Provisional protection only.*

REGNAULD. 5th October 1857.

2554. ATHANASE VICTOR CONSTANT REGNAULD, of 39, Rue de l'Echiquier, Paris, in the Empire of France, and 4, South Street, Finsbury, London, Gentleman, for an invention for—"A universal preservative medicine." *Letters Patent sealed.*

CAVENDY. 6th October 1857.

2555. EDWARD CAVENDY, of the City, County, and State of New York, a Subject of the Government of the United States of America, for an invention for—"An instrument in taking zenith observations at sea (when the horizon is obscured) of any planet." *Letters Patent sealed.*

PITMAN. 6th October 1857.

2556. JOHN TALBOT PITMAN, of the American and European Patent Offices 67, Gracechurch Street, London, for an invention for—"Improvements in apparatus for making candles and other analogous manufactures."—*A communication from a Citizen of the United States.* *Letters Patent sealed.*

HUGHES. 6th October 1857.

2557. RICHARD HUGH HUGHES, of Hatton Garden, in the County of Middlesex, Manufacturer, for an invention for—"Improvements in hydraulic connections of gas chandeliers, lanterns, or pendants." *Letters Patent sealed.*

PARKER. 6th October 1857.

2558. JONATHAN PARKER, of the State of Maine, of the United States of America, for an invention for—"Certain new and useful improvements in machinery for grinding card cylinders of carding-engines." *Complete specification; Letters Patent sealed.*

VIGERS. 6th October 1857.

2559. EDWARD VIGERS, of Bayswater, Gentleman, for an invention for—"Improvements in the construction of wrought iron beams and girders." *Provisional protection only.*

BROOMAN. 6th October 1857.

2560. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, E.C., Patent Agent, for an invention for—"Improvements in apparatuses for taking photographic pictures."—*A communication from Monsieur Garella.* *Letters Patent sealed.*

FINZEL. BRYANT. 6th October 1857.

2561. CONRAD WILLIAM FINZEL, of the City of Bristol, Sugar Refiner, and JAMES BRYANT, of Plymouth, in the County of Devon, Sugar Refiner, for an invention for—"Improvements in cleansing animal charcoal and in removing iron and other impurities therefrom." *Letters Patent sealed.*

STONEHAM. LEES. 6th October 1857.

2562. JAMES STONEHAM, of Audenshaw, near Manchester, in the County of Lancaster, and JOHN PIPLER LEES, of Ashton-under-Lyne, in the said County, for an invention for—"Improvements in uniting or connecting piping." *Letters Patent sealed.*

ROBINSON. 6th October 1857.

2563. GEORGE THOMAS ROBINSON, of Leamington Priors, in the County of Warwick, Architect, for an invention for—"A machine for obliterating postage stamps on letters, at the same time stamping the post marks and registering the number of letters so stamped." *Letters Patent sealed.*

KNAPTON. 6th October 1857.

2564. WILLIAM KNAPTON, of the Albion Foundry, Monkbar, York, for an invention for—"Improvements in gasometers or gas holders, and in the application thereof to railway and other carriages and ships, for lighting the same with gas." *Letters Patent sealed.*

APPLEGATH. 6th October 1857.

2565. AUGUSTUS APPLEGATH, of Dartford, in the County of Kent, for an invention for—"Improvements in printing-machines." *Letters Patent sealed.*

WARBURTON. 6th October 1857.

2566. JAMES WARBURTON, of Low Mills, Addingham, near Otley, in the County of York, for an invention for—"Improvements in combing wool and other fibres." *Letters Patent sealed.*

STEVENNS. 6th October 1857.

2567. EBENEZER STEVENNS, of Cambridge Road, in the County of Middlesex, for an invention for—"Improvements in machinery for making bread and pastry and other similar articles." *Provisional protection only.*

ROMAINE. 6th October 1857.

2568. ROBERT ROMAINE, late of Canada West, but now residing at Beverley, in the County of York, Gentleman, for an invention for—"Improvements in machinery for digging or cultivating land, part of which improvements is applicable to agricultural steam-engines generally." *Letters Patent sealed.*

GOSSAGE. 6th October 1857.

2569. WILLIAM GOSSAGE, of Widnes, in the County of Lancaster, Chemist, for for an invention for—"Improvements in the manufacture of sulphuric acid." *Letters Patent sealed.*

BOYD. 8th October 1857.

2570. ALEXANDER BOYD, of Lees Brook, near Oldham, in the County of Lancaster, Machine Maker, for an invention for—"Improvements in machinery for spinning and doubling." *Letters Patent sealed.*

FORSYTH. 8th October 1857.

2571. THOMAS FORSYTH, of the City of Manchester, Engineer, for an invention for—"Improvements in the construction of metallic pistons."—*Letters Patent sealed.*

LEGENDRE. 8th October 1857.

2572. REMI NICOLAS LEGENDRE, of Bourbonne les Bains, a Town of France, Abbé and Military Chaplain, for an invention for—"A new combined system of publicity applied to beneficent purposes." *Provisional protection* NOT *granted.*

ALLEN.
YOUNG.
8th October 1857.

2573. JOB ALLEN, of Commercial Road, in the County of Middlesex, Engineer, and JOHN YOUNG, of Shadwell, in the same County, Mechanic, for an invention for —"Improvements in preventing oscillation in carriages upon railways." *Provisional protection only.*

GRUBB.
8th October 1857.

2574. THOMAS GRUBB, of the City of Dublin, Engineer, for an invention for— "An improved photographic lens." *Letters Patent sealed.*

BARLOW.
8th October 1857.

2575. CHARLES BARLOW, of the Office for Patents, 89, Chancery Lane, London, for an invention for—"Improvements in buoyant or life-preserving garments."—*A communication.* *Provisional protection only.*

MAC NAUGHT.
MAC NAUGHT.
8th October 1857.

2576. WILLIAM MAC NAUGHT, of Rochdale, in the County of Lancaster, Engineer, and WILLIAM MAC NAUGHT, of Manchester, in the same County, Engineer, for an invention for—"Certain improvements in steam-engines." *Letters Patent sealed.*

CRAIG.
8th October 1857.

2577. WILLIAM GRINDLEY CRAIG, of Gorton, in the County of Lancaster, Engineer, for an invention for—"Improvements in the manufacture of railway carriage and other wheels formed of cast metal or having cast metal naves or bosses." *Letters Patent sealed.*

REUVER.
8th October 1857.

2578. DANIEL REUVER, 109, Boulevart de Waterloo, Brussels, Gentleman, for an invention for—"Improvements in propelling and steering ships and other floating bodies." *Provisional protection only.*

COCKER.
8th October 1857.

2579. JAMES COCKER, of Liverpool, in the County of Lancaster, Wire Drawer, for an invention for—"Improvements in the manufacture of wire." *Provisional protection only.*

TODD.
8th October 1857.

2580. WILLIAM RICHARD TODD, Junior, of Hull, in the County of York, Colour Manufacturer, for an invention for—"Improvements in manufacturing or preparing washing blue." *Letters Patent sealed.*

COCKER.
8th October 1857.

2581. JAMES COCKER, of Liverpool, in the County of Lancaster, Wire Drawer, for an invention for—"Improved apparatus for heating or annealing wire, wire iron or rods, or sheets of iron or other metals." *Provisional protection only.*

FOSTER.
8th October 1857.

2582. ELBRIDGE FOSTER, of the State of Connecticut, of the United States of America, for an invention for—"A new and useful or improved life-preserving berth for navigable vessels." *Provisional protection only.*

MASSEY.
SAVAGE.
8th October 1857.

2583. THOMAS MASSEY, of 4, Birchin Lane, in the City of London, and THOMAS SAVAGE, of 19, Soley Terrace, Pentonville, for an invention for—"An improvement in apparatus for ascertaining and recording the speed of ships." *Letters Patent sealed.*

WADSWORTH.
8th October 1857.

2584. JAMES WADSWORTH, of Hazelgrove, near Stockport, in the County of Chester, Machine Maker, for an invention for—"Improvements in the production and management of artificial light and heat, and in certain parts of apparatus applicable thereto." *Provisional protection only.*

SCOTT.
9th October 1857.

2585. GEORGE SCOTT, of Philadelphia, State of Pennsylvania, United States of America, at present residing at No. 133, High Holborn, in the County of Middlesex, for an invention for—"Improvements in steam generators." *Letters Patent sealed.*

WALMSLEY.
9th October 1857.

2586. SAMUEL WALMSLEY, of Heaton Norris, in the County of Lancaster, Agent, for an invention for—"Improvements in the construction of footsteps for upright shafts and spindles." *Letters Patent sealed.*

ALLMAN.
9th October 1857.

2587. FENNELL HERBERT ALLMAN, Civil Engineer, of Mornington Place, Regent's Park, London, for an invention for—"Certain improvements in the construction of valves and taps." *Letters Patent sealed.*

DAVIES.
9th October 1857.

2588. RICHARD DAVIES, of No. 5, Pilgrim Street, Newcastle-on-Tyne, Marble Mason, for an invention for—"Improvements in washing-machines." *Provisional protection only.*

HARLAND.
9th October 1857.

2589. JOHN HARLAND, of Shield Street, in the Borough and County of Newcastle-upon-Tyne, Timber Merchant, for an invention for—"Improvements in purifying and cleansing clay, and in the manufacture of bricks, tiles, and similar articles therefrom." *Letters Patent sealed.*

POISAT.
9th October 1857.

2590. ANTOINE MARIE POISAT, of Paris (France), Manufacturer, for an invention for—"A machine for preparing wood to be reduced into pulp for the manufacture of paper, card and paste board."—*A communication.* *Provisional protection only.*

PUJOL.
9th October 1857.

2591. LÉON PUJOL, of Paris (France), Gentleman, for an invention for—"Improvements in envelopes and letter paper." *Provisional protection only.*

BROWN.
BROWN.
9th October 1857.

2592. HENRY BROWN, and WILLIAM BROWN, Coach Trimmers, of Albert Street, Newington Butts, for an invention for—"An improved whip socket." *Provisional protection only.*

NEWTON.
9th October 1857.

2593. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in stirrups or stirrup irons."—*A communication.* *Letters Patent sealed.*

BARNARD.
BISHOP.
10th October 1857.

2594. CHARLES BARNARD, and JOHN BISHOP, of the City of Norwich, in the County of Norfolk, Ironmongers and Copartners, for an invention for—"An improved washing-machine." *Provisional protection only.*

CALVERT.
10th October 1857.

2595. FRANCIS ALTON CALVERT, of the City of Manchester, Engineer, for an invention for—"Improvements in machinery for ginning cotton, and for burring and cleaning cotton, wool, and other fibrous materials." *Letters Patent sealed.*

MILLER.
10th October 1857.

2596. GEORGE MILLER, of Salford, in the County of Lancaster, Machinist, for an invention for—"Improvements in apparatus for heating and ventilating." *Provisional protection only.*

LEROY.
10th October 1857.

2597. CLAUDE NICOLAS LEROY, Mechanic, of Paris, Empire of France, and of 45, Essex Street, Strand, London, for an invention for—"Preventing accidents and collisions on railways." *Letters Patent sealed.*

LOMBARD.
10th October 1857.

2598. GEORGE FRÉDÉRICK LOMBARD, Machinist, of Paris, Empire of France, and of 45, Essex Street, Strand, London, for an invention for—"Improvements in steam-engines." *Letters Patent sealed.*

BARLOW.
10th October 1857.

2599. ALFRED BARLOW, of Number 25, Darley Street, Leeds, in the County of York, for an invention for—"A jacquard apparatus dispensing with the use of cards and the usual mode of designing for figured weaving." *Letters Patent sealed.*

MYERS.
10th October 1857.

2600. WILLIAM HENRY MYERS, of No. 202, Whitechapel Road, in the Parish of Saint Mary, Whitechapel, in the County of Middlesex, for an invention for—"An improved means for signals on railways, being a system of signals for railway trains in motion or otherwise, comprising communications between guards and engine drivers, station masters and others, the same apparatus being applicable as fog, danger, and accident signals, the same apparatus being also a communication from station masters (or their servants) including point and signal men, to guards and engine drivers, for passengers, by means of glass or metallic pendant signals." *Letters Patent sealed.*

PORTER.
PORTER.
10th October 1857.

2601. ROBERT PORTER, of Blackburn, in the County of Lancaster, Joiner, and JAMES PORTER, of the same place, Cabinet Maker, for an invention for—"Improvements in machinery for the manufacture of bricks." *Letters Patent sealed.*

USSHER.
10th October 1857.

2602. RICHARD USSHER, of Rath Boro', Killanne, in the County of Wexford, Ireland, for an invention for—"A machine for imparting motive-power to thrashing machines and such like agricultural implements." *Provisional protection only.*

EDWARDS.
10th October 1857.

2603. HENRY EDWARDS, of Dulston, in the County of Middlesex, Gentleman, for an invention for—"An improved vessel or feeder for administering food and medicines." *Letters Patent sealed.*

BUTLER.
10th October 1857.

2604. FREDERICK MORTIMER BUTLER, of the City and State of New York, United States of America, for an invention for—"Improvements in ventilators or wind-guards for chimnies and other purposes." *Provisional protection only.*

PRESTAGE.
12th October 1857.

2605. FRANKLIN PRESTAGE, of Westbury, in the County of Wilts, Civil Engineer, for an invention for—"Improvements in the furnaces of locomotive and other steam-boilers." *Letters Patent sealed.*

GRAY.
GRAY.
12th October 1857.

2606. JOHN GRAY, Medical Doctor, and JOHN WILSON GRAY, both of Rathgar, in the County of Dublin, for an invention for—"An improved means of causing signals to be made on railways, and of otherwise preventing certain classes of accidents on same." *Provisional protection only.*

BEARD.
12th October 1857.

2607. GEORGE BEARD, of Pall Mall, in the City of Westminster, and County of Middlesex, Gentleman, for an invention for—"Improvements in mechanism for producing impressions on paper or other surfaces." *Letters Patent sealed.*

WANOSTROCHT.
12th October 1857.

2608. VINCENT WANOSTROCHT, of St. Swithin's Lane, in the City of London, for an invention for—"Improvements in converting muskets and other fire-arms into rifled fire-arms."—*A communication from the inventors Messrs. Minié and Delvigne.* *Provisional protection only.*

CALVERT.
12th October 1857.

2609. WILLIAM CALVERT, of Residentiary Houses, St. Paul's in the City of London, Clerk, for an invention for—"Improvements in obtaining motive-power by the action of the wind." *Letters Patent sealed.*

KYISHOGLOO.
12th October 1857.

2610. PRODROMOS B. KYISHOGLOO, of Constantinople, for an invention for—"Improvements in obtaining and applying motive-power."—*Provisional protection only.*

NEWTON.
13th October 1857.

2611. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improved apparatus for roasting or torrefying coffee or other substances."—*A communication from Joseph Maurice Gauthier, of Paris.* *Provisional protection only.*

BROOKES.
13th October 1857.

2612. WILLIAM BROOKES, of 73, Chancery Lane, in the County of Middlesex, Patent Agent, for an invention for—"Improvements in combing wool and other fibres."—*A communication.* *Letters Patent sealed.*

HENRY.
13th October 1857.

2613. MICHAEL HENRY, of 77, Fleet Street, in the City of London, Patent Agent, for an invention for—"Improvements in apparatus for playing loto."—*A communication from P. E. Lemercier, and J. F. Bouneau.* *Provisional protection only.*

ALGER.
13th October 1857.

2614. CHARLES COFFEY ALGER, of Newburgh, in the County of Orange, of the State of New York, of the United States of America, for an invention for—"An improved furnace for smelting iron." *Letters Patent sealed.*

DEANE.
13th October 1857.

2615. EDWARD DEANE, of Arthur Street, London Bridge, in the City of London, Manufacturer, for an invention for—"An improved weapon to be used either as a sword, or as a pistol, or both." *Provisional protection only.*

BELL.
13th October 1857.

2616. THOMAS BELL, of Plaistow, in the County of Essex, for an invention for—"Improvements in the manufacture of alkaline salts." *Letters Patent sealed.*

SIMPSON.
13th October 1857.

2617. JOHN HARWOOD SIMPSON, of Petersham, in the County of Surrey, Engineer, for an invention for—"Improved machinery or apparatus for making bands or ropes of straw, hay, or other fibrous substances." *Letters Patent sealed.*

MARTIN.
13th October 1857.

2618. MALITON MARTIN, of Madrid, in the Kingdom of Spain, Engineer, for an invention for—"Improved apparatus for retarding and stopping railway carriages." *Letters Patent sealed.*

WANOSTROCHT.
13th October 1857.

2619. VINCENT WANOSTROCHT, of 10, St. Swithin's Lane, in the City of London, for an invention for—"Improvements in obtaining fatty and oily matters by distillation."—*A communication.* *Provisional protection only.*

YATES.
13th October 1857.

2620. JAMES YATES, of Little Bolton, in the County of Lancaster, Overlooker, for an invention for—"Improvements in machinery or apparatus used in preparing and spinning fibrous materials." *Provisional protection only.*

SHARMAN.
13th October 1857.

2621. WILLIAM SHARMAN, of Sheffield, in the County of York, for an invention for—"An improved metallic compound applicable to the manufacture of various useful and ornamental articles." *Provisional protection only.*

KOPISCH.
14th October 1857.

2622. C. G. KOPISCH, 61, Gibson Square, Islington, London, for an invention for—"Improvements in propelling vessels by means of heated air, without screw or paddle, thereby saving fuel and ship's room." *Provisional protection only.*

KEIGHLEY.
14th October 1857.

2623. EDWARD KEIGHLEY, of Bradford, in the County of York, Dyer, for an invention for—"Improvements in the preparation and use of dye liquids." *Letters Patent sealed.*

ELLENA.
14th October 1857.

2624. ADOLPHE BARTHÉLEMY ELLENA, of Paris, in the Empire of France, for an invention for—"A new mechanical means of rocking cradles."—*Letters Patent sealed.*

SWINBURN.
14th October 1857.

2625. JOHN FIELD SWINBURN, of Birmingham, in the County of Warwick, Gun Maker, for an invention for—"Improvements in fire-arms."—*A communication from Thomas Bailey, of New Orleans, United States, Gun Maker.* *Letters Patent sealed.*

JOHNSON.
14th October 1857.

2626. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of 166, Buchanan Street, in the City of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in producing figured paper to be used in teaching writing and drawing."—*A communication from Léon Louis Honoré Bertou, of the firm of Messieurs Bertou and Pottier, of Rue d'Hauteville, Paris, in the Empire of France.* *Letters Patent sealed.*

OWEN.
14th October 1857.

2627. EDWARD OWEN, of Blackheath, in the County of Kent, Chemist, for an invention for—"Improvements in the preparation and manufacture of manures." *Letters Patent sealed.*

HOLMES.
14th October 1857.

2628. FREDERICK HALE HOLMES, of Blackwall, in the County of Middlesex, Analytical Chemist, for an invention for—"Improvements in magneto-electric machines." *Letters Patent sealed.*

MIDDLETON.
RYLANCE.
14th October 1857.

2629. JOHN MIDDLETON, of Hyde, in the County of Chester, Ironmonger, and WILLIAM RYLANCE, of Whitefield, near Manchester, in the County of Lancaster, Manufacturing Chemist, for an invention for—"The application of a certain metal or material to the manufacture of shuttles, bobbins, and tubes." *Letters Patent sealed.*

RESTELL.
14th October 1857.

2630. THOMAS RESTELL, of New Kent Road, in the County of Surrey, Engineer, for an invention for—"Improvements in breech loading fire-arms, in projectiles and in cartridges for breech loading arms." *Letters Patent sealed.*

PARKER.
14th October 1857.

2631. JOSEPH PARKER, of Southampton, in the County of Hants, Joiner, for an invention for—"An improved method of fitting and working venetian and other similar blinds used as ventilators or screens or both." *Letters Patent sealed.*

PLOMLEY.
14th October 1857.

2632. JOHN CROFT PLOMLEY, of Maidstone, in the County of Kent, Gentleman, for an invention for—"An improved method of drying malt, hops, and other produce." *Letters Patent sealed.*

RHODES.
14th October 1857.

2633. GODFREY RHODES, now of Ship Street Barracks, in the City of Dublin, Captain in Her Majesty's 94th Regiment of Foot, for an invention for—"A parabolical or bell shaped or other shaped camp or field tent, without any centre support or pole." *Letters Patent sealed.*

WILKINS.
15th October 1857.

2634. EDWARD WILKINS, of Walworth, in the County of Surrey, and of the Experimental Garden, in the County of Berks, for an invention for—"Improvements in frames for horticultural and vegetative purposes." *Letters Patent sealed.*

ROOKE.
15th October 1857.

2635. WILLIAM ASHBY ROOKE, of New Brentford, in the County of Middlesex, for an invention for—"Using and employing dextrine in the making and sizing of paper." *Letters Patent sealed.*

REEVES.
15th October 1857.

2636. CHARLES REEVES, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"An improvement or improvements in the manufacture of swords, matchets, and knives." *Letters Patent sealed.*

BALDERSTON.
15th October 1857.

2637. ROBERT GLASS BALDERSTON, of Bishopbriggs, in the County of Lanark, North Britain, Gentleman, for an invention for—"Apparatus for cultivating land." *Letters Patent sealed.*

PRIESTLEY.
15th October 1857.

2638. FREDERICK PRIESTLEY, of Berners Street, Oxford Street, in the County of Middlesex, Pianoforte Manufacturer, for an invention for—"Improvements in signal instruments or apparatus for making or transmitting electric telegraph signals." *Provisional protection only.*

RICHARDSON.
PRENTICE.
15th October 1857.

2639. THOMAS RICHARDSON, of Newcastle-upon-Tyne, and MANNING PRENTICE, of Stowmarket, for an invention for—"Improvements in the manufacture of salts and preparations of phosphoric acid." *Letters Patent sealed.*

HOPPER.
15th October 1857.

2640. WILLIAM BROWN HOPPER, of Camberwell, in the County of Surrey, for an invention for—"Improvements in floating docks."—*Provisional protection only.*

NEGRETTI.
ZAMBRA.
15th October 1857.

2641. HENRY ANGELO LUDOVICO NEGRETTI, and JOSEPH WARREN ZAMBRA, of Hatton Garden, in the County of Middlesex, Opticians and Meteorological Instrument Makers, for an invention for—"Improvements in producing graduated scales and other signs, letters, numerals, characters, and pictorial representations, upon porcelain and other ceramic and enamelled materials, which improvements are applicable to the graduated scales of meteorological and other philosophical instruments." *Letters Patent sealed.*

GIBBS. 15th October 1857.

2642. JOSEPH GIBBS, of Abingdon Street, in the City of Westminster, Civil Engineer, for an invention for—"A method of treating phormium tenax in order to render it fit for the manufacture of pulp." *Letters Patent sealed.*

HEILMANN. 15th October 1857.

2643. PAUL HEILMANN, of Mulhouse, Town in the French Empire, Gentleman, for an invention for—"Certain improvements in spinning silk, cotton, wool, and other fibrous substances." *Letters Patent sealed.*

WALKER. 15th October 1857.

2644. CHARLES WALKER, of New Lanark, in the County of Lanark, North Britain, Cotton Spinner, for an invention for—"Improvements in atmospheric railways." *Provisional protection only.*

WALKER. 15th October 1857.

2645. CHARLES WALKER, of New Lanark, in the County of Lanark, North Britain, Cotton Spinner, for an invention for—"Improvements in the manufacture of manure from sewerage or drainage matters." *Provisional protection only.*

SCARR. POLLARD. 15th October 1857.

2646. GEORGE SCARR, of Burnley, in the County of Lancaster, Joiner, and JAMES POLLARD, of the same place, Mechanic, for an invention for—"Certain improvements in power looms for weaving." *Letters Patent sealed.*

WRIGHT. 15th October 1857.

2647. RICHARD WRIGHT, of Brighton, in the County of Sussex, Gentleman, for an invention for—"Improvements in the application of certain fluid and other matters to heating purposes, and in apparatus for the same." *Letters Patent sealed; no specification filed.*

GUTHRIE. VAVASSEUR. 16th October 1857.

2648. DAVID GUTHRIE, and JOSIAH VAVASSEUR, of New Park Street, Southwark, in the County of Surrey, Civil and Mechanical Engineers, for an invention for—"A machine for cutting, chipping, or rasping dye woods or other similar fibrous substances, for the purpose of obtaining extracts." *Letters Patent sealed.*

WRIGHT. 16th October 1857.

2649. JOHN WRIGHT, of New George Street, Sheffield, in the County of York, Spring Maker, for an invention for—"Improvements in preparing or treating strips of steel, for hardening and tempering." *Letters Patent sealed.*

HOLROYD. SMITH. 16th October 1857.

2650. WARD HOLROYD, of Halifax, in the County of York, Manufacturer, and SAMUEL SMITH, of Shipley, near Bradford, in the said County, Overlooker, for an invention for—"Improvements in looms for weaving." *Letters Patent sealed.*

BERNARD. 16th October 1857.

2651. JULIAN BERNARD, of the Albany, Piccadilly, in the County of Middlesex, Gentleman, for an invention for—"Certain improvements in the manufacture or production of boots and shoes or other coverings for the feet, and in machinery, apparatus, and materials to be employed in such manufacture." *Letters Patent sealed.*

ARBEL. 16th October 1857.

2652. LUCIEN ARBEL, of Rive de Gier, Town in the French Empire, Manufacturer, for an invention for—"Certain improvements in manufacturing wheels for carriages on railways." *Letters Patent sealed.*

BROOMAN. 16th October 1857.

2653. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, E.C., Editor of the Mechanics' Magazine, and Patent Agent, for an invention for—"An apparatus for scoring games and points at games."—*A communication from Louis Bonneau.* *Provisional protection only.*

CHADWICK. 16th October 1857.

2654. JAMES CHADWICK, of Castleton Print Works, near Rochdale, in the County of Lancaster, Manager, for an invention for—"Improvements in rollers or cylinders for printing or staining the surfaces of woven fabrics, yarns, paper, and other materials." *Provisional protection only.*

HOLT. 17th October 1857.

2655. THOMAS HOLT, of Little Bolton, in the County of Lancaster, Manager, for an invention for—"Improvements in looms." *Provisional protection only.*

BADGE. 17th October 1857.

2656. RICHARD JOHN BADGE, of Newton Heath, near Manchester, in the County of Lancaster, Storekeeper to the Lancashire and Yorkshire Railway Company, for an invention for—"An improved mode or method of securing railway chairs to the sleepers." *Letters Patent sealed.*

BENTLEY. 17th October 1857.

2657. JOSEPH BENTLEY, of Liverpool, in the County of Lancaster, Gun Manufacturer, for an invention for—"Improvements in fire-arms." *Letters Patent sealed.*

HUMPHRYS. 17th October 1857.

2658. EDWARD HUMPHRYS, of Deptford, for an invention for—"Improvements in engines worked by steam or vapour." *Provisional protection only.*

EASTWOOD. 17th October 1857.

2659. JAMES EASTWOOD, of Derby, Engineer, for an invention for—"An improvement in working the valves of steam hammers by a direct self-acting motion." *Letters Patent sealed.*

BROOMAN. 17th October 1857.

2660. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, E.C., Patent Agent, for an invention for—"Improvements in forming the joints of pipes for conveying water, gas, and other fluids."—*A communication from P. J. Guyet.* *Letters Patent sealed.*

MASSEY. SAVAGE. 17th October 1857.

2661. THOMAS MASSEY, of 4, Birchin Lane, in the City of London, and THOMAS SAVAGE, of 19, Soley Terrace, Pentonville, in the County of Middlesex, for an invention for—"Improvements in sounding-machines." *Letters Patent sealed.*

OSBORNE. 17th October 1857.

2662. WILLIAM OSBORNE, of 5, Bow Church Yard, Cheapside, in the City of London, for an invention for—"Improvements in ladies' petticoats, under skirts, and dresses." *Letters Patent sealed.*

LEWENBURG. 17th October 1857.

2663. LEON LEWENBURG, of the City, County, and State of New York, Optician, for an invention for—"Improvements in railway alarms and marine alarms or fog signals." *Provisional protection only.*

DE CRISTOFORIS. 19th October 1857.

2664. LUIGI DE CRISTOFORIS, of 67, Lower Thames Street, London, for an invention for—"An improvement on the system of vehicle wheels, to be called the De Cristoforis conical wheels." *Letters Patent sealed.*

SIEBER. 19th October 1857.

2665. JOHN JAMES SIEBER, of 5, Baring Street, New North Road, London, in the County of Middlesex, for an invention for—"Improvements in power looms."—*A communication from Henry Honegger, of Thiengen, in the Grand Duchy of Baden.* *Letters Patent sealed.*

SCHMIDT. 19th October 1857.

2666. JEAN SCHMIDT, of Kernsbach, and of 32, Essex Street, Strand, London, Engineer, for an invention for—"An improved method of making tires for railway wheels." *Letters Patent sealed.*

PÉAN. 19th October 1857.

2667. VICTOR PÉAN, of 39, Rue de l'Echiquier, Paris, in the Empire of France, and of 4, South Street, Finsbury, London, Gentleman, for an invention for—"Improvements in protecting the walls, ceilings, wainscots, and other parts of buildings, from humidity." *Letters Patent sealed.*

CAVALERIE. 19th October 1857.

2668. MARCELIN FRANÇOIS CAVALERIE, of 39, Rue de l'Echiquier, Paris, in the Empire of France, and 4, South Street, Finsbury, London, for an invention for—"Improvements in obtaining motive-power, and in the apparatus connected therewith." *Provisional protection only.*

BROOMAN. 19th October 1857.

2669. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, Patent Agent, for an invention for—"Improvements in producing figured fabrics in which the design is applied by printing."—*A communication.* *Provisional protection only.*

BARNARD. ROSENTHALL. 19th October 1857.

2670. BENEDICT BARNARD, and ALFRED ROSENTHALL, of Cheapside, in the City of London, Manufacturers, for an invention for—"A new ornamental fringe or fringed fabric, also the means of producing the same." *Provisional protection only.*

HENRY. 19th October 1857.

2671. MICHAEL HENRY, of 77, Fleet Street, in the City of London, Patent Agent, for an invention for—"Improved machinery for unmaking rope or cordage."—*A communication.* *Letters Patent sealed.*

WIMBALL. 19th October 1857.

2672. HENRY WIMBALL, of Aldermaston, in the County of Berks, Brick Manufacturer, for an invention for—"Improvements in machinery or apparatus for the manufacture of bricks, tiles, pipes, and other articles of a similar nature." *Letters Patent sealed.*

COCKEY. COCKEY. COCKEY. 19th October 1857.

2673. EDWARD COCKEY, HENRY COCKEY, and FRANCIS CHRISTOPHER COCKEY, of the firm of Edward Cockey and Sons, of the Frome Iron Foundry, in the County of Somerset, Engineers, for an invention for—"Improvements in regulating the flow of fluids." *Letters Patent sealed.*

NEWTON. 19th October 1857.

2674. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in the manufacture of drawing-rollers."—*A communication.* *Letters Patent sealed.*

BENTHAM. 19th October 1857.

2675. WILLIAM BENTHAM, of Halifax, in the County of York, Music Seller, for an invention for—"Improvements in harmoniums and other similar reed instruments." *Letters Patent sealed.*

GARVEY. 19th October 1857.

2676. BENJAMIN GARVEY, of Ashland, in the County of Green, and State of New York, United States of America, for an invention for—"Improvements in apparatus for determining position and direction on land and sea." *Provisional protection only.*

PATRIDGE. 19th October 1857.

2677. DAVID PATRIDGE, of Tavistock Place, Plumstead Common, Woolwich, for an invention for—"Improvements in shaft bearings." *Letters Patent sealed.*

MENNONS. 20th October 1857.

2678. MARC ANTOINE FRANÇOIS MENNONS, of 29, Rue de l'Abbaye Montmartre (Depart^{t} de la Seine) in the Empire of France, Clerk, for an invention for—An improved hydraulic press."—*A communication.* *Letters Patent sealed.*

BRIGGS. 20th October 1857.

2679. EDWARD BRIGGS, of Castleton Mills, near Rochdale, in the County of Lancaster, Spinner and Manufacturer, for an invention for—"An improved manufacture of printed piled fabric." *Provisional protection only.*

ATKINSON. BREAREY. 20th October 1857.

2680. ROBERT ATKINSON, of Baildon, near Bradford, in the County of York, Overlooker, and THOMAS BREAREY, of the same place, Joiner, for an invention for—"Improvements in loom pickers." *Letters Patent sealed.*

SMITH. 20th October 1857.

2681. GEORGE HORATIO SMITH, of Norfolk Street, Strand, in the County of Middlesex, Civil Engineer, for an invention for—"An improved governor or regulator for steam and other engines." *Letters Patent sealed.*

WINDHAUSEN. 20th October 1857.

2682. FRANCES WINDHAUSEN, of Duderstadt, in Hanover, for an invention for—"Improvements in increasing the adhesion of the wheels of locomotive engines to rails when moist." *Letters Patent sealed.*

JOHNSON. 20th October 1857.

2683. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of 166, Buchanan Street, in the City of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in jacquard machines and in the cards employed therein."—*A communication from Lazare Tiphaine, of Paris, in the Empire of France, Mechanician, Jules Maurel, of Lyons, in the same Empire, and Gaspard Gagnière, of the same Empire, Weaver.* *Letters Patent sealed.*

TOOTH. WYNNE. 20th October 1857.

2684. CHARLES TOOTH, and WILLIAM WATKIN WYNNE, of Burton-on-Trent, in the County of Stafford, Brewers, for an invention for—"An improved refrigerator or apparatus for cooling or attempering liquids." *Letters Patent sealed.*

STOREY. STOREY. 21st October 1857.

2685. ISAAC STOREY, and JOHN HENRY STOREY, both of the City of Manchester, Coppersmiths and Brass Founders, for an invention for—"Improvements in water gauges for steam-boilers, and in taps for steam and other fluids." *Letters Patent sealed.*

CLARK. 21st October 1857.

2686. ROBERT CLARK, of Glasgow, in the County of Lanark, North Britain, Bleacher and Finisher, for an invention for—"Improvements in effecting the consumption or prevention of smoke, applicable to steam-boilers' and other furnaces." *Provisional protection only.*

SLAWSON. 21st October 1857.

2687. JOHN B. SLAWSON, of New Orleans, in the State of Louisiana, United States of America, for an invention for—"An improvement in boxes for receiving the fares of passengers in public conveyances, for the prevention of fraud on the part of the persons authorized to attend to the receiving of the fares, as well as on the part of the passengers."—*A communication.* *Letters Patent sealed.*

NEWTON. 21st October 1857.

2688. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"Improvements in the construction of sewing-machines, and in the mode of operating such machinery."—*A communication.* *Letters Patent sealed.*

DUKE. 21st October 1857.

2689. ROBERT DUKE, of Dover, in the County of Kent, Ship Builder, for an invention for—"Improvements in the means of communicating power to ships' pumps." *Letters Patent sealed.*

REEVES. 22nd October 1857.

2690. CHARLES REEVES, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"Improvements in repeating or revolving fire-arms." *Letters Patent sealed.*

BETHELL. 22nd October 1857.

2691. JOHN BETHELL, of No. 8, Parliament Street, in the City of Westminster, Gentleman, for an invention for—"Improvements in machinery or apparatus for trenching, cutting, digging, and cultivating land." *Letters Patent sealed.*

HINKS. 22nd October 1857.

2692. JAMES HINKS, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"An improvement or improvements in stiffeners for wearing-apparel." *Provisional protection only.*

CHIANDI. 22nd October 1857.

2693. ALEXANDRE HENRI CHARLES CHIANDI, of Paris, in the French Empire, Engineer, for an invention for—"Improvements in the manufacture and combustion of certain products of peat, and in the apparatus employed therein." *Letters Patent sealed.*

MENNONS. 22nd October 1857.

2694. MARC ANTOINE FRANÇOIS MENNONS, of 29, Rue de l'Abbaye, Montmartre, Departement de la Seine, in the Empire of France, Clerk, for an invention for—"Certain improvements in machinery for the preparation of peat."—*A communication.* *Letters Patent sealed.*

HAMILTON. HAMILTON. 22nd October 1857.

2695. THOMAS HAMILTON, of Glasgow, in the County of Lanark, North Britain, and JAMES HAMILTON, of the same place, Bobbin Turners, for an invention for—Improvements in turning, cutting, shaping, or reducing wood and other substances." *Letters Patent sealed.*

MILNE. 22nd October 1857.

2696. JOHN MILNE, of Royton, in the County of Lancaster, Cotton Spinner, for an invention for—"Certain improvements in carding engines."—*Letters Patent sealed.*

CARDWELL. 22nd October 1857.

2697. THOMAS CARDWELL, of Manchester, for an invention for—"Improvements in machinery for compressing cotton and other articles." *Letters Patent sealed.*

SAUNDERS. 22nd October 1857.

2698. DAVID HOGG SAUNDERS, of Craig Mill Cottage, Rattray, in the County of Perth, North Britain, Manufacturer, for an invention for—"Improvements in the preparation and manufacture of textile fabrics and materials." *Provisional protection only.*

SMITH. 22nd October 1857.

2699. JAMES SMITH, of the City of Bristol, Horsehair Seating and Curled Hair Manufacturer, for an invention for—"Improvements in horsehair crinoline for petticoats." *Letters Patent sealed.*

RAND. BECKLEY. 23rd October 1857.

2700. THOMAS RAND, and GEORGE BECKLEY, of Oxford Street, in the County of Middlesex, Saddlers, and Copartners, for an invention for—"An improvement in saddle trees." *Provisional protection only.*

PARKER. 23rd October 1857.

2701. BENJAMIN PARKER, of Clapham, in the County of Surrey, Surveyor, for an invention for—"Improvements in the permanent way of railways." *Provisional protection only.*

BLAKELY. 23rd October 1857.

2702. ALEXANDER THEOPHILUS BLAKELY, of Tunbridge Wells, in the County of Kent, Captain in the Royal Artillery, for an invention for—"Improvements in laying submarine telegraphic cables." *Provisional protection only.*

HARRILD. HARRILD. 23rd October 1857.

2703. ROBERT HARRILD, and HORTON HARRILD, of Farringdon Street, in the City of London, Printers' Composition Roller Manufacturers, for an invention for—"An improvement in the manufacture of the composition used for printers' rollers." *Letters Patent sealed.*

AKERMAN. 23rd October 1857.

2704. WILLIAM HENRY HINE AKERMAN, of Bridgewater, in the County of Somerset, for an invention for—"Improvements in organs and similar musical instruments." *Letters Patent sealed.*

KIRKMAN. 24th October 1857.

2705. FELTON CHARLES KIRKMAN, of 38, Royal Street, Lambeth, in the County of Surrey, Civil Engineer, for an invention for—"Improvements in machinery for winding and unwinding ropes and cables, which is applicable to electric cables for submarine purposes." *Provisional protection only.*

NEWTON. 24th October 1857.

2706. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"An improvement in the process of making wrought iron beams or girders."—*A communication.* *Letters Patent sealed.*

MACINTOSH. 24th October 1857.

2707. JOHN MACINTOSH, of North Bank, Regent's Park, in the County of Middlesex, for an invention for—"Improvements in the construction and laying of telegraphic cables." *Letters Patent sealed.*

THOM.
M'NAUGHT.
24th October 1857.

2708. JAMES THOM, of Glasgow, in the County of Lanark, North Britain, Manufacturer, and HUGH M'NAUGHT, of the same place, Mechanic, for an invention for —"Improvements in looms for weaving." *Letters Patent sealed.*

PEARSON.
24th October 1857.

2709. JOHN MICHAEL PEARSON, of 4, Basinghall Street, in the City of London, Gentleman, for an invention for—"Improvements in the manufacture of coke."—*A communication.* *Provisional protection only.*

WARD.
26th October 1857.

2710. FREDERICK OLDFIELD WARD, of Cork Street, Burlington Gardens, London, for an invention for—"Improvements in the manufacture of roller blinds." *Provisional protection* NOT *granted.*

FAIRCLOUGH.
FAIRCLOUGH.
COWAN.
26th October 1857.

2711. JAMES FAIRCLOUGH, of Liverpool, in the County of Lancaster, Cabinet Manufacturer and Upholsterer, and JOHN FAIRCLOUGH, of Liverpool aforesaid, Cabinet Manufacturer and Upholsterer, and JOSEPH COWAN, of Liverpool aforesaid, Cabinet Maker, for an invention for—"Improvements for suspending and working window hangings and other drapery curtains." *Letters Patent sealed.*

JONES.
26th October 1857.

2712. ISAAC JONES, of St. Helen's, in the County of Lancaster, Glass Flattener, for an invention for—"Improvements in the manufacture of sheet glass." *Provisional protection only.*

DE CLIPPÈLE.
26th October 1857.

2713. CHARLES DE CLIPPÈLE, of Brussels, temporary of No. 74, Mark Lane, in the City of London, Gentleman, for an invention for—"Improvements in the manufacture of boots and shoes, harness, and driving straps, which improvements are applicable to uniting various materials together, and also for waterproofing." *Letters Patent sealed.*

HORROCKS.
26th October 1857.

2714. JOHN HORROCKS, of Manchester, in the County of Lancaster, Machine Maker, for an invention for—"Improvements in winding-machines and in the bobbins employed therein, and also improvements in shuttles for weaving with such bobbins." *Provisional protection only.*

LEE.
26th October 1857.

2715. THE REVEREND JOHN WALTER LEE, of Chelmsford, in the County of Essex, Clerk, M.A., for an invention for—"Improvements in communicating between the different parts of railway trains." *Provisional protection only.*

FERRABEE.
WHITMORE.
26th October 1857.

2716. JAMES FERRABEE, of Phœnix Iron Works, Stroud, in the County of Gloucester, Engineer, and CHARLES WHITMORE, of Stroud, in the same County, Mechanic, for an invention for—"Improvements applicable to machinery for carding, scribbling, and condensing wool and other fibrous substances."—*Letters Patent sealed.*

MARKS.
26th October 1857.

2717. AARON MARKS, of 119, London Wall, in the City of London, Trimming Manufacturer, for an invention for—"An improved fastening for gloves and other articles." *Provisional protection only.*

CLARKE.
27th October 1857.

2718. WILLIAM CLARKE, of Laybourne Road, Camden Town, in the County of Middlesex, Railway Guard, for an invention for—"Improved means of connecting and working breaks for railway carriages." *Letters Patent sealed.*

CADBY.
27th October 1857.

2719. CHARLES CADBY, of Liquorpond Street, in the County of Middlesex, Pianoforte Manufacturer, for an invention for—"Improvements in pianofortes." *Provisional protection only.*

MOTTRAM.
27th October 1857.

2720. THOMAS MOTTRAM, of the firm of Thomas Mottram and Company, Manufacturers, Rockingham Street, Sheffield, in the County of York, for an invention for—"Improvements in knife handles." *Provisional protection only.*

NEWALL.
27th October 1857.

2721. JAMES NEWALL, of Bury, in the County of Lancaster, Railway Carriage Builder, for an invention for—"Improvements in railway breaks and signals, and in the machinery or apparatus for working the same." *Letters Patent sealed.*

MARGETSON.
27th October 1857.

2722. ROBERT ALEXANDER MARGETSON, of the City of Norwich, Stone Mason, for an invention for—"Improved means of communicating between the guard and driver on railways." *Provisional protection only.*

MENNONS.
27th October 1857.

2723. MARC ANTOINE FRANÇOIS MENNONS, of the British and Foreign Patent Offices, 39, Rue de l'Echiquier, Paris, and 4, South Street, Finsbury, London, for an inventin for—"An improved varnish."——*A communication.* *Provisional protection only.*

URIE. SUTHERLAND. 27th October 1857.

2724. ROBERT URIE, of Paisley, and WILLIAM SUTHERLAND, of Penelope Works, Greenock, both in the County of Renfrew, for an invention for—"Improvements in the manufacture of knitted and weft-netted warp fabrics."
Provisional protection only.

IRLAM. 28th October 1857.

2725. WILLIAM IRLAM, of the Gibraltar Works, Newton Heath, near the City of Manchester, Engineer, for an invention for—"Improvements in wrought iron railway chairs, sleepers, and crossings." *Provisional protection only.*

DANIELL. 28th October 1857.

2726. HENRY JOHN DANIELL, of Donington Park, in the County of Derby, Colonel (late) Coldstream Guards, for an invention for—"Improvements in communicating by signals between the pilot and steersman and between other parts of vessels, by means of dial apparatuses." *Letters Patent sealed.*

ADDISON. 28th October 1857.

2727. JOHN ADDISON, of the Honourable East India Company's Army, Bombay Presidency, and presently residing at Tours, in France, for an invention for—"Discovering and destroying hydrogen or carburetted hydrogen gas and other gases in coal mines, dwellinghouses, or other places." *Letters Patent sealed.*

LUEDEKE. 28th October 1857.

2728. JOHAN ERNST FRIDRICH LUEDEKE, of Birmingham, in the County of Warwick, Mechanical Engineer, for an invention for—"A new or improved motive-power engine." *Letters Patent sealed.*

SMITH. 28th October 1857.

2729. WILLIAM SMITH, of No. 10, Salisbury Street, Adelphi, London, Civil Engineer, for an invention for—"Improvements in couplings or connections for shafts."—*A communication from Monsieur Blondell, of Déville, Rouen, in the Empire of France.*
Provisional protection only.

MAURY. 28th October 1857.

2730. PIERRE ADOLPHE MELCHIOR MAURY, of Paris, in the French Empire, Merchant, for an invention for—"Improvements in cutting the pile of velvets and other pile fabrics." *Letters Patent sealed.*

WEST. 28th October 1857.

2731. ABEL WEST, of Wormley Ring, Hoddesdon, in the County of Hertford, for an invention for—"Improvements in the manufacture of candles."
Letters Patent sealed.

BOURGEOIS. 28th October 1857.

2732. AIMÉ BOURGEOIS, of 457, New Oxford Street, in the County of Middlesex, for an invention for—"An improvement in preparing liquor for tanning hides and skins."—*Partly a communication.* *Provisional protection only.*

SHILIBEER. GILES. 28th October 1857.

2733. GEORGE SHILLIBEER, of No. 1, Commercial Place, City Road, Funeral Carriage Proprietor and Coach Maker, and GEORGE GILES, of 10, Gray's Inn Square, Gentleman, for an invention for—"Improvements in omnibuses.".
Letters Patent sealed.

SLOPER. 28th October 1857.

2734. JOSEPH SLOPER, of Oxford Street, in the County of Middlesex, Builder and Decorator, for an invention for—"Improved means of and apparatus for obtaining motive-power for propelling ships or driving machinery." *Letters Patent sealed.*

CLARK. 28th October 1857.

2735. WILLIAM CLARK, of 53, Chancery Lane, in the County of Middlesex, Engineer and Patent Agent, for an invention for—"An improvement in rails for railways."—*A communication.* *Letters Patent sealed.*

CLARK. 28th October 1857.

2736. WILLIAM CLARK, of 53, Chancery Lane, in the County of Middlesex, Engineer and Patent Agent, for an invention for—"Improvements in the manufacture of murexide."—*A communication.* *Letters Patent sealed.*

CLARK. 28th October 1857.

2737. WILLIAM CLARK, of 53, Chancery Lane, in the County of Middlesex, Engineer and Patent Agent, for an invention for—"Certain improvements in machinery for carding cotton, wool, and other fibrous substances."—*A communication.*
Letters Patent sealed.

NEWTON. 28th October 1857.

2738. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in the manufacture of sewing silk, twist, and different kinds of thread."—*A communication.* *Letters Patent sealed.*

M'DOWALL. 28th October 1857.

2739. ELIZABETH M'DOWALL, of Johnstone, in the County of Renfrew, North Britain, Widow, for an invention for—"Improvements in steam-hammers."—*A communication from her late husband John M'Dowall, of Johnstone aforesaid, Engineer, ecedased.* *Letters Patent sealed; no specification filed*

CHILD.
CHILD.
28th October 1857.

2740. JOHN CHILD, Gunmaker, of Lower Loveday Street, Birmingham, in the County of Warwick, and JOSEPH CHILD, Gun Manufacturer, of Howard Street, in the same County, for an invention for—"A double-barrelled gun with an elevated rifled tubular rib." *Letters Patent sealed.*

TAYLOR.
28th October 1857.

2741. HENRY TAYLOR, of Staley Bridge, in the County of Lancaster, Tin Plate Worker, for an invention for—"An improvement in the "cans" employed in connection with machinery for preparing cotton and other fibrous materials for spinning." *Letters Patent sealed.*

FRASER.
28th October 1857.

2742. JOHN FRASER, of Glasgow, in the County of Lanark, North Britain, Manufacturing Chemist, for an invention for—"Improvements in the manufacture of saltpetre." *Provisional protection only.*

RONALD.
28th October 1857.

2743. ROBERT ALEXANDER RONALD, of Paisley, in the County of Renfrew, North Britain, Shawl Manufacturer, for an invention for—"Improvements in the manufacture of shawls." *Letters Patent sealed.*

GREENING.
28th October 1857.

2744. WILLIAM GREENING, of Lower Edmonton, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in enamelling and ornamenting metals and other surfaces." *Letters Patent sealed.*

DELF.
29th October 1857.

2745. WILLIAM DELF, Junior, of Great Bentley, in the County of Essex, Gentleman, for an invention for—"Improvements in ploughs." *Provisional protection only.*

GOURLAY.
29th October 1857.

2746. DANIEL DE LA CHEROIS GOURLAY, of Wilton House, Regent's Park, for an invention for—"Improvements in ambulance carriages." *Letters Patent sealed; no specification filed.*

FELOJ.
29th October 1857.

2747. PIETRO FELOJ, of No. 97, Holborn Hill, in the City of London, Mechanic for an invention for—"The improvement of an illuminating reflector of light from gas, oil, or candle." *Provisional protection only.*

COOK.
29th October 1857.

2748. THOMAS COOK, of Old Kent Road, in the County of Surrey, Machinist, for an invention for—"Improvements in machinery for cutting, framing, and packing lucifer and other like wood matches." *Letters Patent sealed.*

ALLISON.
LIVINGSTON.
29th October 1857.

2749. DAVID ALLISON, of the City of Manchester, in the County of Lancaster, Pattern Maker, and JOHN LIVINGSTON, of the same place, Mechanic, for an invention for—"Improvements in machinery or apparatus for regulating the weight or pressure to top rollers used in spinning or preparing fibrous materials to be spun." *Letters Patent sealed.*

PADGETT.
29th October 1857.

2750. WILLIAM PADGETT, of Poole, in the County of Dorset, for an invention for—"The manufacture of earthenware pipes for drains and sewers." *Letters Patent sealed.*

CRAVEN.
29th October 1857.

2751. JONAS CRAVEN, of Bradford, in the County of York, Designer, for an invention for—"Improvements in machinery or apparatus used in weaving." *Letters Patent sealed.*

SMITH.
29th October 1857.

2752. EPHRAIM SMITH, of Carlisle Street, in the County of Middlesex, Goldsmith, for an invention for—"An improved safety hook or fastening, particularly applicable to securing watch chains and watches to waistcoats and other garments." *Letters Patent sealed.*

ROBINSON.
29th October 1857.

2753. GEORGE WILLIAM ROBINSON, of Barton-on Humber, for an invention for—"Improvements in clod crushing rollers." *Letters Patent sealed.*

EVANS.
30th October 1857.

2754. JOHN EVANS, of Lower Road, Islington, in the County of Middlesex, Designer, for an invention for—"Certain improvements in the method or methods of affixing or securing patterns and designs upon rollers and blocks used for imprinting on paper and other substances." *Provisional protection only.*

FRASER.
30th October 1857.

2755. JOSEPH BOYES FRASER, of Kenilworth, in the County of Warwick, Mechanical Engineer, for an invention for—"An improvement or improvements in lubricating shafts, axles, screws, and other articles requiring lubrication." *Letters Patent sealed.*

CHARLESWORTH.
CHAPMAN.
30th October 1857.

2756. HENRY CHARLESWORTH, of Huddersfield, in the County of York, Card Maker, and WILLIAM CHAPMAN, of the same place, Machine Maker, for an invention for—"Improvements in machinery or apparatus for preparing woollen or other fibrous substances to be spun." *Provisional protection only*

CLARK.
30th October 1857.

2757. WILLIAM CLARK, of 53, Chancery Lane, in the County of Middlesex, Engineer and Patent Agent, for an invention for—"Improvements in tackle blocks."—*A communication.* *Letters Patent sealed.*

SHIELDS.
30th October 1857.

2758. WILLIAM SHIELDS, of Salford, in the County of Lancaster, Engineer, for an invention for—"Improvements in machinery or apparatus for etching, engraving, and cutting cylinders and other surfaces to be used in printing and embossing." *Letters Patent sealed.*

HARWOOD.
30th October 1857.

2759. WILLIAM HARWOOD, of Mendlesham, in the County of Suffolk, Esquire, for an invention for—"Improvements in reaping-machines." *Letters Patent sealed.*

DAVY.
BENTLEY.
30th October 1857.

2760. JOSEPH DAVY, of Bradford, in the County of York, Machine Maker, and WILLIAM BENTLEY, also of Bradford aforesaid, for an invention for—"Certain improvements in looms for weaving." *Letters Patent sealed.*

LAWSON.
30th October 1857.

2761. JOHN LAWSON, of Leeds, for an invention for—"Improvements in machinery for roving flax and other fibrous substances."—*Partly a communication.* *Letters Patent sealed; no specification filed.*

PRIDEAUX.
30th October 1857.

2762. THOMAS SYMES PRIDEAUX, of 32, Charing Cross, Engineer, for an invention for—"Improvements in apparatus for regulating the supply of air to furnaces." *Letters Patent sealed.*

KNOWLES.
30th October 1857.

2763. SAMUEL KNOWLES, of Tottington Mill, near Bury, in the County of Lancaster, Calico Printer, for an invention for—"Improvements in dunging fabrics preparatory to dyeing." *Letters Patent sealed.*

STODART.
30th October 1857.

2764. MALCOLM STODART, of 1, Golden Square, in the County of Middlesex, for an invention for—"An improvement in the construction of the sound boards of pianofortes." *Letters Patent sealed.*

GALLOWAY.
31st October 1857.

2765. GEORGE BELL GALLOWAY, of 42, Basinghall Street, in the City of London, Engineer and Ship Owner, for an invention for—"Improvements in the construction of merchant ships and other vessels, in motive-powers, propulsion, and boiler furnaces." *Letters Patent sealed.*

VIAULT.
VIAULT.
31st October 1857.

2766. HENRY JEAN VIAULT, and JULES VIAULT, of Paris, in the Empire of France, and of No. 35, Essex [Street, Strand, in the County of Middlesex, for an invention for—"An apparatus or mechanism for making signals on railways and preventing collisions on the same." *Provisional protection only.*

OWEN.
31st October 1857.

2767. JAMES OWEN, of Worsley, in the County of Lancaster, Carpenter, for an invention for—"Certain improvements in machinery or apparatus for the prevention of accidents applicable to hoisting and other lifting machines." *Provisional protection only.*

LOWE.
31st October 1857.

2768. THOMAS LOWE, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"A new or improved method of feeding screws, blanks, shanks, pins and other such like articles, to turning, nicking, and worming lathes or machines." *Letters Patent sealed.*

MARTIN.
HALL.
HALL.
31st October 1857.

2769. RICHARD MARTIN, EBENEZER HALL, and JOSHUA HALL, trading under the style or firm of Martin, Hall and Company, Silver Platers, of Shrewsbury Works, Sheffield, in the County of York, for an invention for—"Improvements in steam hammers." *Letters Patent sealed; specification filed by order.*

DE LANDFORT.
31st October 1857.

2770. LEON DE LANDFORT, of Higher Broughton, near Manchester, in the County of Lancaster, Gentleman, for an invention for—"An apparatus for protecting the contents of pockets of wearing-apparel from theft and loss." *Letters Patent sealed.*

BROOMAN.
31st October 1857.

2771. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, E.C., Patent Agent, for an invention for—"Improvements in the construction of boats."—*A communication.* *Provisional protection only.*

SCHUESSEL.
THOURET.
31st October 1857.

2772. JOHANN JULIUS SCHUESSEL, of Breslaw, in Prussia, and PETER JULIUS THOURET, of Berlin, in Prussia, Merchants, for an invention for—"The manufacture of a composition which will render inflammable materials incombustible." *Letters Patent sealed.*

WOODHEAD.
WOODHEAD.
WOODHEAD.
31st October 1857.

2773. WILLIAM WOODHEAD, JAMES WOODHEAD, and JOHN WOODHEAD, of Eccleshill, near Leeds, in the County of York, Tube and Tile Manufacturers, for an invention for—"Improvements in the manufacture of kiln tiles and in the machinery or apparatus employed therein." *Provisional protection only.*

GABBITASS. 31st October 1857.

2774. PETER GABBITASS, of Worksop, in the County of Nottingham, Machine Maker, for an invention for—"Improvements in washing-machines." *Letters Patent sealed; no specification filed.*

KYISHOGLOO. 31st October 1857.

2775. PRODROMOS B. KYISHOGLOO, of Constantinople, for an invention for—"Improvements in obtaining and applying motive-power." *Letters Patent sealed.*

FRY. 31st October 1857.

2776. JOSEPH FRY, of Watling Street, in the City of London, for an invention for—"An improvement in cementing fabrics when india-rubber is employed." *Letters Patent sealed.*

COTTAM. COTTAM. 31st October 1857.

2777. GEORGE HALLEN COTTAM, and HENRY RICHARD COTTAM, of the St. Pancras Iron Works, Old St. Pancras Road, for an invention for—"Improvements in stable fittings." *Letters Patent sealed.*

NORTON. WILKINSON. 31st October 1857.

2778. JAMES LEE NORTON, of Bow, in the County of Middlesex, and EDWIN WILKINSON, of Leeds, in the County of York, for an invention for—"An improvement in extracting oil and grease from wool previous to its being manufactured into yarn or fabrics, and also when in the state of yarn or fabrics, and in scouring or cleansing such wool, yarn, and fabrics." *Letters Patent sealed.*

KIRKMAN. 2nd November 1857.

2779. ROBERT KIRKMAN, of St. Helen's, in the County of Lancaster, Watch Movement Maker, for an invention for—"Improvements in fusees of lever and other watches." *Provisional protection only.*

MATTHEWS. 2nd November 1857.

2780. NELSON MATTHEWS, of Dodworth, near Barnsley, in the County of York, for an invention for—"Improvements in pumps." *Provisional protection only.*

MURRAY. 2nd November 1857.

2781. EUGENE MURRAY, Contractor, of Beresford Street, Woolwich, Kent, for an invention for—"Preventing accidents on railways." *Provisional protection only.*

ISOARD. 2nd November 1857.

2782. MATHIEU FRANÇOIS ISOARD, of Paris, in the Empire of France, Engineer, for an invention for—"Improvements in producing heat and light." *Letters Patent sealed.*

ILES. 2nd November 1857.

2783. CHARLES ILES, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"Improvements in wardrobes or similar receptacles for articles of dress, and in stands, frames, and pins for holding or suspending articles of dress." *Letters Patent sealed.*

APPERLY. CLISSOLD. 2nd November 1857.

2784. JAMES APPERLY, Cloth Manufacturer, and WILLIAM CLISSOLD, Engineer, both of Dudbridge, in the County of Gloucester, for an invention for—"Improved means of and apparatus for feeding fuel to furnaces." *Letters Patent sealed.*

APPERLY. CLISSOLD. 2nd November 1857.

2785. JAMES APPERLY, Cloth Manufacturer, and WILLIAM CLISSOLD, Engineer, both of Dudbridge, in the County of Gloucester, for an invention for—"Improvements applicable to carding and condensing engines." *Letters Patent sealed.*

FONTAINEMOREAU. 3rd November 1857.

2786. PETER ARMAND LE COMTE DE FONTAINEMOREAU, of Paris, London, and Brussels, Patent Solicitor, for an invention for—"Improvements in marine or condensing steam-engines."—*A communication.* *Provisional protection only.*

HOGA. 3rd November 1857.

2787. STANISLAS HOGA, of Charlotte Street, Fitzroy Square, in the County of Middlesex, for an invention for—"Improvements in electric telegraphs." *Provisional protection only.*

MALLISON. 3rd November 1857.

2788. JAMES MALLISON, Junior, of Bolton-le-Moors, in the County of Lancaster, Yarn Agent, for an invention for—"Certain improvements in gassing yarn and textile fabrics, and in the apparatus connected therewith." *Letters Patent sealed.*

BOYD. 3rd November 1857.

2789. JAMES EDWARD BOYD, of Hither Green, Lewisham, in the County of Kent, Gentleman, for an invention for—"Improvements in skates." *Provisional protection only.*

CURTIS. 3rd November 1857.

2790. WILLIAM JOSEPH CURTIS, of No. 1, Crown Court, Old Broad Street, in the City of London, for an invention for—"Improvements in machinery used for slotting, boring, and surfacing." *Provisional protection only.*

HARCOURT. 3rd November 1857.

2791. DAVID HARCOURT, of Lozells, Birmingham, Crank Chain Maker, for an invention for—"Improvements in wrenches." *Provisional protection only.*

SWEET. 3rd November 1857.

2792. HENRY KINSMAN SWEET, of Northumberland Street, Strand, for an invention for—"Improvements in photographic portraits and pictures."—*A communication.* *Provisional protection only.*

WAPPENSTEIN. 3rd November 1857.

2793. RUDOLPH WAPPENSTEIN, of the City of Manchester, in the County of Lancaster, Engraver and Printer, for an invention for—"Improvements in 'doctors' or scrapers used for cleaning engraved surfaces." *Letters Patent sealed.*

SACRE. 3rd November 1857.

2794. ANTHONY CHARLES SACRE, Senior, of Brussels, in the Kingdom of Belgium, Mechanical Engineer, for an invention for—"An improved apparatus for measuring water." *Letters Patent sealed.*

NEWTON. 3rd November 1857.

2795. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improved machinery for cutting files."—*A communication.* *Provisional protection only.*

SEITHEN. 3rd November 1857.

2796. JOHN SEITHEN, of Earl Street, in the City of London, Engineer, for an invention for—"Improvements in machinery for cutting cork."—*Letters Patent sealed.*

LAMING. 4th November 1857.

2797. RICHARD LAMING, of Hayward's Heath, in the County of Sussex, for an invention for—"Improvements in purifying gas, and in apparatus useful for that purpose." *Provisional protection only.*

BATHO. BAUER. 4th November 1857.

2798. WILLIAM FOTHERGILL BATHO, and EUGÈNE MORITZ BAUER, of Salford, near Manchester, in the County of Lancaster, Engineers and Tool Makers, for an invention for—"Improvements in machinery or apparatus for drilling and boring metals, and also for cutting key ways and cotter holes." *Letters Patent sealed and Specification filed by order.*

HIGGINSON. 4th November 1857.

2799. FRANCIS HIGGINSON, of Woodlands Cottage, Woodlands, in the Parish of Eling, and County of Hampshire, Esquire, a Lieutenant in Her Majesty's Royal Navy, for an invention for—"Submerging, extending, and laying down submarine electric, magnetic, and every other description of submerged or immersed electrical telegraph cables, wire, ropes, and combined wire, gutta-percha, spun yarn, or other compound electrical cables whatsoever." *Provisional protection only.*

MURPHY. 4th November 1857.

2800. JAMES MURPHY, of Newport, in the County of Monmouth, Civil Engineer, for an invention for—"Improvements in the permanent way of railways." *Provisional protection only.*

DUBUS. 4th November 1857.

2801. ROMAIN IGNACE CHARLES DUBUS, of Brussels, in the Kingdom of Belgium, Merchant, for an invention for—"A method of treating certain plants or vegetable substances in order to extract from the same, first, a kind of fecula or farina proper both for alimentary and finishing or starching purposes, second, an alcoholic liquor, and third, a natural ferment or yeast." *Letters Patent sealed.*

AMOS. 4th November 1857.

2802. CHARLES EDWARDS AMOS, of the Grove, Southwark, in the County of Surrey, Engineer, for an invention for—"An improved arrangement of steam machinery for driving rotary pumps." *Letters Patent sealed.*

CLAY. 4th November 1857.

2803. CHARLES CLAY, of Walton, near Wakefield, in the County of York, for an invention for—"Improvements in machinery for grubbing or cutting up weeds, and otherwise scarifying and cultivating land." *Letters Patent sealed.*

HOUGHTON. 4th November 1857.

2804. JAMES HOUGHTON, of Kilburn, in the County of Middlesex, Watch Maker, for an invention for—"An improvement in braces." *Provisional protection only.*

MILLER. 4th November 1857.

2805. JOSEPH MILLER, of Alpha Road, Regent's Park, in the County of Middlesex, Engineer, for an invention for—"An improved arrangement of marine steam-engines." *Letters Patent sealed.*

SIMPSON. SIMPSON. 5th November 1857.

2806. GODWIN RATLER SIMPSON, and DAVID CALDOW SIMPSON, of No. 78, High Street, Whitechapel, and No. 5, George Terrace, Commercial Road, Blind Makers, for an invention for—"Improvements in spring blinds." *Letters Patent sealed.*

BUNNETT. 5th November 1857.

2807. JOSEPH BUNNETT, of Deptford, in the County of Kent, Engineer, for an invention for—"Improvements in machinery for bending and shaping metals." *Provisional protection only.*

BESSEMER. 5th November 1857.

2808. HENRY BESSEMER, of Queen Street Place, New Cannon Street, in the City of London, for an invention for—"Improvements in treating iron ores." *Letters Patent sealed; no specification filed.*

ROBINSON. 5th November 1857.

2809. GEORGE ROBINSON, of High Street, Deptford, in the County of Kent, Engineer and Millwright, for an invention for—"Improvements in apparatus for shelling or hulling coffee and other berries and seeds." *Provisional protection only.*

BEINHAUER. 5th November 1857.

2810. HENRY BEINHAUER, of Deutz, near Cologne, in the Kingdom of Prussia, Engineer, for an invention for—"Improved machinery for drawing or extracting water from mines, wells, pits or other deep places, by means of suction." *Letters Patent sealed.*

COUSINS. 5th November 1857.

2811. JOHN JAMES COUSINS, of Park Lane, Leeds, in the County of York, Woollen Merchant, for an invention for—"Improvements in the construction of steam ploughs." *Letters Patent sealed.*

HOCHSTAETTER. 5th November 1857.

2812. HEINRICH HOCHSTAETTER, of Darmstadt, for an invention for—"An improved machine for the manufacture of matches." *Provisional protection only.*

SHARMAN. 5th November 1857.

2813. WILLIAM SHARMAN, of Sheffield, in the County of York, for an invention for—"An improved metallic compound applicable to the manufacture of useful and ornamental articles for which german silver and compounds resembling german silver are at present used." *Provisional protection only.*

PALMER. 5th November 1857.

2814. HENRY ROBINSON PALMER, of Lambeth, in the County of Surrey, Engineer, for an invention for—"An improved stamping and endorsing machine." *Letters Patent sealed.*

LIPSCOMBE. 6th November 1857.

2815. FREDERICK LIPSCOMBE, of the Strand, in the County of Middlesex, Water Filter Manufacturer, for an invention for—"Improvements in the mode of conveying water and other liquids." *Provisional protection only.*

AITCHISON. 6th November 1857.

2816. ROBERT KER AITCHISON, of New North Street, W.C., in the County of Middlesex, for an invention for—"An improved break applicable to wheeled carriages." *Letters Patent sealed.*

CANOUIL. 6th November 1857.

2817. GERMAIN CANOUIL, of Paris, (France,) Matches Manufacturer, for an invention for—"Improvements in the manufacture of matches." *Letters Patent sealed.*

ANDERTON. 6th November 1857.

2818. WILLIAM ANDERTON, of Ince within Mackerfield, in the County of Lancaster, Colliery Overlooker, for an invention for—"New railway chairs." *Provisional protection only.*

BESSEMER. 6th November 1857.

2819. HENRY BESSEMER, of Queen Street Place, New Cannon Street, for an invention for—"Improvements in the manufacture of malleable iron and steel, and also in the manufacture of railway bars and other bars, plates, and rods, from iron or steel so manufactured." *Letters Patent sealed.*

MACNAB. 6th November 1857.

2820. WILLIAM MACNAB, of Greenock, for an invention for—"Improvements in vessels propelled by screw or other similar propellers." *Letters Patent sealed.*

BAINES. 7th November 1857.

2821. HUGH BAINES, of Manchester, in the County of Lancaster, Architect, for an invention for—"Certain improvements in machinery or apparatus for the prevention of accidents applicable to hoisting and other lifting machines."—*Letters Patent sealed.*

FORDRED. 7th November 1857.

2822. JOHN FORDRED, of Stoke Newington, in the County of Middlesex, Gentleman, for an invention for—"Improvements in treating and purifying water." *Letters Patent sealed.*

PEPPER. 7th November 1857.

2823. JOHN HENRY PEPPER, Sole Lessee of the Royal Polytechnic Institution, Regent Street, in the County of Middlesex, for an invention for—"Improvements in displaying various devices when revolving discs or surfaces are used." *Provisional protection only.*

ADAMS. 7th November 1857.

2824. JOHN ADAMS, of Queen's Road, Dalston, in the County of Middlesex, for an invention for—"Improvements in revolver fire-arms." *Letters Patent sealed.*

WILSON. FIELD. 7th November 1857.

2825. WILLIAM WILSON, of No. 1, Canterbury Place, Newington, Surrey, and JAMES JOHN JOSEPH FIELD, of No. 11, Sussex Street, Wandsworth Road, Surrey, for an invention for—"Improvements in casting or moulding liquified and other substances." *Letters Patent sealed.*

BROTHERHOOD. 9th November 1857.

2826. PETER BROTHERHOOD, of Chippenham, in the County of Wiltshire, Engineer, for an invention for—"Improvements in boilers and furnaces." *Provisional protection only.*

HARDIE. 9th November 1857.

2827. WALTER HARDIE, of No. 6, Pitt Street, in the City of Edinburgh, Printer, for an invention for—"An improved stereoscope." *Provisional protection only.*

STOTHARD. JONES. JONAS. JONAS. 9th November 1857.

2828. DANIEL STOTHARD, of Lambeth, JOSEPH JONES, of Southwark, both in the County of Surrey, DAVID JONAS, and BENJAMIN WOOLF JONAS, both of Spitalfields, in the County of Middlesex, for an invention for—"An improved ship's block." *Provisional protection only.*

BALESTRINI. 9th November 1857.

2829. PIER ALBERTO BALESTRINI, of Brescia, Italy, Gentleman, for an invention for—"Improvements in machinery and apparatus for paying out submarine telegraph cables, and for regulating and controlling the paying out thereof." *Provisional protection only.*

PINKER. 9th November 1857.

2830. JOHN PINKER, of Pease Street, Hull, for an invention for—"Improvements in governors for marine steam-engines." *Provisional protection only.*

DE NORMANDY. 9th November 1857.

2831. ALPHONSE RÉNÉ LE MIRE DE NORMANDY, of Judd Street, Brunswick Square, in the County of Middlesex, Analytical Chemist, for an invention for—"Improvements in the manufacture of soap." *Letters Patent sealed.*

PARKES. 9th November 1857.

2832. ALEXANDER PARKES, of Bath Row, Holloway Head, Birmingham, for an invention for—"Improvements in the manufacture of nails." *Letters Patent sealed.*

WEEDON. WEEDON. 9th November 1857.

2833. GEORGE WEEDON, of Gloucester Place, Portman Sqnare, in the County of Middlesex, and THOMAS TURNER WEEDON, of Plumstead, in the County of Kent, for an invention for—"An improved knife cleaning machine."—*Letters Patent sealed.*

ELWIN. 9th November 1857.

2834. WILLIAM JEKIN ELWIN, of Dartford, in the County of Kent, Tallow Chandler, for an invention for—"Improvements in night lights." *Letters Patent sealed.*

REEVE. 9th November 1857.

2835. JOHN REEVE, of 46, Rutland Gate, in the County of Middlesex, Gentleman, for an invention for—"Improvements in propelling vessels." *Provisional protection only.*

DEVON. 10th November 1857.

2836. WILLIAM DEVON, of No. 4, Maryland Terrace, Stratford, in the County of Essex, for an invention for—"An improved self-acting apparatus for flushing water-closets, and the means of connecting the same to water mains, parts of which are applicable to the junction of gas or water pipes generally." *Letters Patent sealed.*

ROWCLIFFE. 10th November 1857.

2837. THOMAS ROWCLIFFE, of No. 26, Upper Park Place, Dorset Square, Marylebone, in the County of Middlesex, Operative Engineer, for an invention for—"Improvements in machinery for making and pressing bricks, drain pipes, and tiles, and in preparing material to be used for such like purposes." *Letters Patent sealed.*

LECOINTE. 10th November 1857.

2838. CHARLES EUGÈNE LECOINTE, of Paris, (France,) Gentleman, for an invention for—"A new mode of advertising." *Letters Patent sealed.*

TOWNSEND. 10th November 1857.

2839. JOSEPH TOWNSEND, of Glasgow, in the County of Lanark, North Britain, Manufacturing Chemist, for an invention for—"Improvements in the manufacture or production of sulphurous acid." *Provisional protection only.*

PARKES. 10th November 1857.

2840. ALEXANDER PARKES, of Bath Row, Holloway Head, Birmingham, for an invention for—"Improvements in the manufacture of tubes and cylinders of copper and alloys of copper." *Letters Patent sealed.*

WAY. 10th November 1857.

2841. JOHN THOMAS WAY, of Welbeck Street, Cavendish Square, in the County of Middlesex, for an invention for—"Improvements in obtaining light by electricity." *Letters Patent sealed.*

HARRINGTON. 10th November 1857.

2842. JOSIAH HARRINGTON, of 9, Gloster Place, Brixton Road, in the County of Surrey, for an invention for—"Improvements in apparatus for pointing pencils o marking instruments." *Letters Patent sealed.*

BARTLETT. 10th November 1857.

2843. HENRY CRITCHETT BARTLETT, of Ampthill Square, Hampstead Road, for an invention for—"Improvements in the manufacture of paper." *Letters Patent sealed.*

THOMPSON. THOMPSON. 11th November 1857.

2844. HENRY THOMPSON, of Regent Street, W., in the County of Middlesex, and SAMUEL THOMPSON, of the same place, Pianoforte Manufacturers, for an invention for—"Improvements in the construction of pianofortes." *Letters Patent sealed.*

MADDEN. 11th November 1857.

2845. PETER MADDEN, of No. 1, Russell Place, City of Dublin, Architect, for an invention for—"Improvements in kilns for drying corn, malt, or other granular substances, part of these improvements being applicable to the screening or sifting of such substances during the process of drying." *Letters Patent sealed.*

COCHRANE. 11th November 1857. — **2846.** JOHN RICHARD COCHRANE, of Glasgow, in the County of Lanark, North Britain, Manufacturer, for an invention for—"Improvements in the treatment or manufacture of ornamental fabrics." *Letters Patent sealed.*

WAHL. 11th November 1857. — **2847.** OTTO WILLIAM WAHL, of 27, Leadenhall Street, in the City of London, for an invention for—"Improvements in manufacturing farinaceous products from potatoes."—*A communication.* *Letters Patent sealed.*

TAYLOR. 11th November 1857. — **2848.** ISAAC TAYLOR, of Stamford Rivers, in the County of Essex, for an invention for—"Improvements in apparatus used in printing calico and other fabrics when cylinders are employed." *Letters Patent sealed.*

ASHCROFT. 11th November 1857. — **2849.** EDWARD HALLIDAY ASHCROFT, of the State of Massachusetts, of the United States of America, for an invention for—"An improved mode of preventing the overheating and bursting of steam-boilers."—*A communication from John Absterdam, and William Burnett, of Massachusetts.—Complete specification; Letters Patent sealed.*

DAVIS. 11th November 1857. — **2850.** ALBERT JOHN DAVIS, of 29, George Street, Hanover Square, in the County of Middlesex, Surgeon Dentist, for an invention for—"A protective sandal for bathers, which may also be adapted as an auxiliary for swimmers." *Letters Patent sealed.*

WILLIAMS. 11th November 1857. — **2851.** JOSHUA WILLIAMS, of Neath, in the County of Glamorgan, Engineer, for an invention for—"An improvement in coupling and connecting carriages on railways." *Letters Patent sealed.*

COLEMAN. 12th November 1857. — **2852.** EBENEZER COLEMAN, of Dudley, in the County of Worcester, for an invention for—"An improvement in lathes for turning bolts, screws and other small articles, in metal." *Letters Patent sealed.*

STEVENSON. 12th November 1857. — **2853.** JAMES STEVENSON, Junior, of Glasgow, in the County of Lanark, North Britain, Merchant, for an invention for—"Improvements in lighting apartments and passages." *Letters Patent sealed.*

DE SIVRAY (Widow LOUIC). 12th November 1857. — **2854.** FRANÇOISE HONORINE FELICIE BERTRAND DE SIVRAY, Widow of JOSEPH FRANÇOIS LOUIC, of Paris, in the Empire of France, for an invention for—"Certain improvements in the construction of bedsteads." *Letters Patent sealed.*

WEBSTER. 12th November 1857. — **2855.** STANLEY WEBSTER, of Bolton-le-Moors, in the County of Lancaster, Foreman, for an invention for—"Certain improvements in machinery or apparatus for turning." *Letters Patent sealed.*

PICKING. 12th November 1857. — **2856.** WILLIAM PICKING, of Lambeth, in the County of Surrey, Engineer, for an invention for—"An improved method of and apparatus for feeding steam-boilers with water." *Letters Patent sealed.*

BOUSFIELD. 12th November 1857. — **2857.** GEORGE TOMLINSON BOUSFIELD, of Loughborough Park, Brixton, in the County of Surrey, for an invention for—"Improvements in castors."—*A communication from Julien Charles Dubois.* *Provisional protection only.*

GIFFORD. 13th November 1857. — **2858.** WILLIAM JAMES GIFFORD, of No. 23, New Millman Street, in the County of Middlesex, Esquire, for an invention for—"Improvements in the making, reefing, and working of sails, and in the construction and arrangement of masts, spars, and rigging, for ships and boats." *Letters Patent sealed.*

SHEPPARD. 13th November 1857. — **2859.** GEORGE SHEPPARD, of Fordingbridge, in the County of Hants, Engineer, for an invention for—"Improved machinery for cultivating land, or for cutting up and pulverising the surface thereof." *Provisional protection only.*

RANKINE. 13th November 1857. — **2860.** WILLIAM JOHN MACQUORN RANKINE, Doctor of Laws, Regius Professor of Civil Engineering and Mechanics, in the University of Glasgow, in the County of Lanark, for an invention for—"Improvements in fan blowers." *Provisional protection only.*

DURANT. 13th November 1857. — **2861.** ANGUISH HONOUR AUGUSTUS DURANT, Esquire, of the Conservative Club, St. James', in the County of Middlesex, for an invention for—"An improved apparatus for husking and winnowing castor seeds, for the purpose of obtaining a larger quantity and a purer kind of oil therefrom when pressed than heretofore with the outer skin or cuticle on." *Provisional protection only.*

BESSEMER. 13th November 1857.

2862. HENRY BESSEMER, of Queen Street Place, New Cannon Street, in the City of London, for an invention for—"Improvements in the treating and smelting of iron ores, and in obtaining products therefrom."

Letters Patent sealed; no specification filed.

HAZELTINE. 14th November 1857.

2863. GEORGE HAZELTINE, Gentleman, of the City of Washington, in the District of Columbia, in the United States of America, now of 12, St. Helen's Place, in the City of London, for an invention for—"Improvements in machinery for the manufacture of small metallic chains."—*A communication.* *Letters Patent sealed.*

WHEELER. 14th November 1857.

2864. GEORGE PRINTY WHEELER, of Abbinghall, near Mitcheldean, in the County of Gloucester, Paper Maker, for an invention for—"Improvements in the preparation of materials for the manufacture of paper pulp or half stuff."

Letters Patent sealed.

BENNETT. 14th November 1857.

2865. JAMES HENRY BENNETT, Engineer, 8, Vambrugh Place, Leith, in the County of Edinburgh, for an invention for—"Improved compound safety valves."

Provisional protection only.

MACINTOSH. 14th November 1857.

2866. JOHN MACINTOSH, of North Bank, Regent's Park, in the County of Middlesex, for an invention for—"An improvement in preparing telegraphic wire which is coated with gutta-percha, in order to render it more capable of resisting heat, and in laying down telegraph wires in the sea." *Letters Patent sealed.*

NEWTON. 14th November 1857.

2867. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"Improvements in apparatus for retarding and stopping the progress of railway trains." *A communication.* *Letters Patent sealed.*

HENRY. 14th November 1857.

2868. MICHAEL HENRY, of 77, Fleet Street, in the City of London, Patent Agent, for an invention for—"Improvements in electric and galvanic conductors, and in the mode of and machinery or apparatus for manufacturing the same."—*A communication.*

Letters Patent sealed.

FEREDAY. 14th November 1857.

2869. JOHN FEREDAY, of Wolverhampton, in the County of Stafford, Engineer, for an invention for—"An improved form of steam-engine."

Provisional protection only.

POCHIN. 16th November 1857.

2870. HENRY DAVIS POCHIN, of the City of Manchester, in the County of Lancaster, Manufacturing Chemist, for an invention for—"Improvements in stiffening, sizeing, and finishing textile fabrics and yarns." *Provisional protection* NOT *granted.*

DONAS, 16th November 1857.

2871. JEAN BAPTISTE DONAS, of Paris, 36, Rue de l'Echiquier, Artist in Photography, for an invention for—"A new optical instrument which he calls Physioscop."

Provisional protection only.

DEBAX-TALABAS. 16th November 1857.

2872. CASIMIR DEBAX-TALABAS, of Castres, a Town of France, Lithographic Printer, for an invention for—"Improvements in lithographic printing-presses."

Provisional protection only.

HODGES. 16th November 1857.

2873. JOHN EDWARD HODGES, of Leicester, in the County of Leicester, Manufacturer, for an invention for—"Improvements in the manufacture of looped fabrics."

Letters Patent sealed.

SPENCER. 16th November 1857.

2874. JOHN FREDERICK SPENCER, of Brighton, in the County of Sussex, Marine Engineer, for an invention for—"Certain improvements in steam-engines and in the apparatus connected therewith." *Letters Patent sealed.*

TAYLOR. 16th November 1857.

2875. JAMES TAYLOR, of Birkenhead, Engineer, for an invention for—"Improvements in dredging-machines, which improvements are also applicable to other purposes." *Letters Patent sealed.*

RICHARDSON. 16th November 1857.

2876. THOMAS RICHARDSON, of Newcastle-on-Tyne, for an invention for—"An improvement in treating manganese ores." *Letters Patent sealed.*

FIELD. 17th November 1857.

2877. THOMAS FIELD, Stay Cleaner, of Spring Place, Kentish Town, London, in the County of Middlesex, for an invention for—"A new method or mode of and appliances for submerging submarine telegraph cables." *Provisional protection only.*

GOSSAGE. 17th November 1857.

2878. WILLIAM GOSSAGE, of Widnes, in the County of Lancaster, Chemist, for an invention for—"Improvements in the manufacture of certain kinds of soap."

Letters Patent sealed.

GEDGE.
17th November 1857.

2879. JOHN GEDGE, of No. 4, Wellington Street South, Strand, in the County of Middlesex, Patent Agent, for an invention for—"Improved means for stopping or retarding carriages used on ordinary roads."—*A communication from William Adolphus Zempliner, Goldsmith, of Vienna, in the Empire of Austria.*
Complete Specification; Letters Patent sealed.

FOXWELL.
17th November 1857.

2880. DANIEL FOXWELL, of the City of Manchester, in the County of Lancaster, Card Manufacturer, for an invention for—"The application of a certain material for the backs of cards." *Letters Patent sealed.*

PIDDING.
17th November 1857.

2881. WILLIAM PIDDING, of Southwark Bridge Road, Southwark, in the County of Surrey, Gentleman, for an invention for—"Improved manufactures and improvements in the manufacture of piled fabrics or of mosaic or tesselated textile and other fabrics, and improvements in some of the machinery or apparatus necessary to produce them, also the application of certain existing or known machinery or apparatus for their production." *Letters Patent sealed.*

BOUSFIELD.
17th November 1857.

2882. GEORGE TOMLINSON BOUSFIELD, of Loughborough Park, Brixton, in the County of Surrey, for an invention for—"Improvements in fire-arms and in detonating compounds to be used therewith."—*A communication.* *Letters Patent sealed.*

SMITH.
17th November 1857.

2883. SOLOMON P. SMITH, of the Village of Cresent, in the County of Saratoga, and State of New York, United States of America, for an invention for—"Constructing iron wheels for railway carriages and similar purposes." *Letters Patent sealed.*

BROOMAN.
17th November 1857.

2884. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, E.C., Patent Agent, for an invention for—"The manufacture upon circular frames of a fabric suitable for petticoats and other garments, and curtains and other articles of furniture, together with apparatus to be employed therein."—*A communication from Monsieur Lucevilliard.* *Letters Patent sealed.*

BROOMAN.
17th November 1857.

2885. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, E.C., Patent Agent, for an invention for—"Improvements in gas burners."—*A communication.* *Letters Patent sealed.*

RICHARDES.
17th November 1857.

2886. WILLIAM EARDLEY RICHARDES, of Bryn-eithin, Aberystwith, South Wales, Esquire, and a Lieutenant h-pay of Royal Regiment of Artillery, for an invention for—"An improved war weapon." *Provisional protection only.*

JOHNSON.
17th November 1857.

2887. EDWARD DANIEL JOHNSON, of Wilmington Square, in the County of Middlesex, Watchmaker, for an invention for—"An improvement in the construction of fuzee watches." *Letters Patent sealed.*

BELL.
18th November 1857.

2888. WILLIAM HEWARD BELL, of Pelton, in the County of Durham, for an invention for—"Improvements in the permanent way of railways."
Letters Patent sealed.

TINKER.
18th November 1857.

2889. JOHN TINKER, of Staley Bridge, in the County of Chester, Manufacturer, for an invention for—"An improved sizing matter." *Provisional protection only.*

ALCAN.
18th November 1857.

2890. EMILE ALCAN, of Fore Street, London, for an invention for—"An apparatus to be applied to looms for producing figured fabrics of all kinds."—*A communication.*
Letters Patent sealed.

AYCKBOURN.
18th November 1857.

2891. FREDERICK AYCKBOURN, of 4, Lyon's Inn, Strand, in the County of Middlesex, Gentleman, for an invention for—"Improvements in bird cages."
Provisional protection only.

GERMANN.
GERMANN.
GERMANN.
18th November 1857.

2892. ANDREW FREDERICK GERMANN, FREDERICK GUSTAVUS GERMANN, and JOSEPH GERMANN, all of Windsor, in the County of Berks, for an invention for—"An improved propeller." *Letters Patent sealed.*

SALOMON-COHEN.
18th November 1857.

2893. ADOLPHE AMBROISE SALOMON-COHEN, of Paris, in the Empire of France, Civil Engineer, for an invention for—"Improvements in machinery or apparatus to be employed in the manufacture of drain pipes and other like articles from plastic materials." *Letters Patent sealed.*

CLEGG.
18th November 1857.

2894. ROBERT CLEGG, of Islington, in the County of Middlesex, Gentleman, for an invention for—"Improvements in registering or indicating apparatus applicable to the registration or indication of fares, the distances passed over by vehicles, the revolutions of machines or parts of machines, and other similar purposes."
Letters Patent sealed.

BOOTH.
FARMER.
18th November 1857.

2895. MAJOR BOOTH, of Manchester, in the County of Lancaster, Finisher, and JAMES FARMER, of Salford, in the same County, Engineer, for an invention for—"Improvements in machinery or apparatus for stiffening, drying and finishing cotton, linen, woollen, and other woven fabrics." *Letters patent sealed.*

BETTLE.
18th November 1857.

2896. PHILIP BETTLE, Foreman to Messrs. Carley & Company, of Ely Place, in the City of London, Watch Makers, for an invention for—"An improvement in the construction of watches." *Letters Patent sealed.*

SMITH.
19th November 1857.

2897. WILLIAM SMITH, of St. Paul's Corner, Norton, near Malton, Yorkshire, for an invention for—"An apparatus for the purpose of protecting the turnip crop by destroying the turnip fly and other insects which are injurious to turnips and other plants." *Letters Patent sealed; specification filed by order.*

WILLIAMS.
19th November 1857.

2898. CHARLES WYE WILLIAMS, of Liverpool, in the County Palatine of Lancaster, Gentleman, for an invention for—"Improvements in steam-engine boilers." *Letters Patent sealed.*

MENNONS.
19th November 1857.

2899. MARC ANTOINE FRANÇOIS MENNONS, of the British and Foreign Patent Offices, 4, South Street, Finisbury, London, and 39, Rue de l'Echiquier, Paris, in the Empire of France, for an invention for—"An improved washing and drying apparatus."—*A communication.* *Provisional protection only.*

MIRIO.
19th November 1857.

2900. JEAN BAPTISTE MIRIO, of Paris, in the French Empire, Iron Merchant, for an invention for—"Improvements in the permanent way of railways."—*A communication from Monsieur Pluchet, of Paris.* *Provisional protection only.*

POCHIN.
WOOLLEY.
19th November 1857.

2901. HENRY DAVIS POCHIN, and JAMES WOOLLEY, both of the City of Manchester, in the County of Lancaster, Manufacturing Chemists, for an invention for—"Improvements in the manufacture of gum or dextrine from amylaceous substances." *Complete specification; Letters Patent sealed.*

KELK.
19th November 1857.

2902. The Reverend THEOPHILUS HENRY HASTINGS KELK, of Tonge, near Ashby-de-la-Zouche, in the County of Leicester, Clerk, for an invention for—"Improved metallic alloys." *Provisional protection only.*

GILL.
NEWTON.
19th November 1857.

2903. SETH GILL, of Liverpool, in the County of Lancaster, Surgeon Dentist, and HENRY NEWTON, of Liverpool aforesaid, Electro Plater and Manufacturer of Photographic Apparatus, for an invention for—"Improvements in obtaining stereoscopic pictures." *Provisional protection only.*

CLAY.
19th November 1857.

2904. WILLIAM CLAY, of Liverpool, in the County of Lancaster, Iron Manufacturer, for an invention for—"Improvements in metal knees employed in the construction of ships, buildings, railway or other waggons or carriages, or other analogous purposes." *Letters Patent sealed.*

CLAY.
19th November 1857.

2905. WILLIAM CLAY, of Liverpool, in the County of Lancaster, Iron Manufacturer, for an invention for—"Improvements in the points, switches and crossings of the permanent way of railways." *Letters Patent sealed.*

COFFEY.
19th November 1857.

2906. PHILIP EDWARD COFFEY, of Bromley, near Bow, in the County of Middlesex, Engineer, for an invention for—"An improvement in the process of distilling." *Provisional protection only.*

GOEDICKE.
19th November 1857.

2907. REINHOLD GOEDICKE, Operative and Analytical Chemist, 29, John Street, Bedford Row, London, for an invention for—"The suspending of the lines of electric telegraphs in the air by means of gas balloons, across water and land, or the atmospheric telegraph." *Provisional protection only.*

MELVIN.
19th November 1857.

2908. DAVID MELVIN, of Glasgow, in the County of Lanark, North Britain, Jacquard Card Manufacturer, for an invention for—"Improvements in machinery or apparatus for manufacturing heddles or healds for weaving." *Letters Patent sealed.*

CLARKE.
19th November 1857.

2909. JOHN CLARKE, of Shiffnall, in the County of Salop, for an invention for—"Improvements in the construction of shafts and poles for cabs, omnibuses, and other vehicles." *Letters Patent sealed.*

CURTIS.
19th November 1857.

2910. JOHN EDMUND BURNINGHAM CURTIS, of St. James' Road, Croydon, in the County of Surrey, for an invention for—"Improvements in apparatus for filing papers and documents." *Provisional protection only.*

COPE.
19th November 1857.

2911. JOHN COPE, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"Improvements in buttons." *Letters Patent sealed.*

BRABSON. HUGHES. 19th November 1857.	**2912.** THOMAS FREDERICK BRABSON, of Birmingham, in the County of Warwick, Brass Founder, and GEORGE HUGHES, of Yardley, in the County of Worcester, Merchant's Clerk, for an invention for—"Improvements in door springs." *Letters Patent sealed.*
CANTELO. 19th November 1857.	**2913.** WILLIAM JAMES CANTELO, of Camberwell, in the County of Surrey, Gentleman, for an invention for—"Improvements in the preparation and application of graves or cracklings for the purposes of animal food and manure." *Provisional protection only.*
KEIGHTLEY. 19th November 1857.	**2914.** BENJAMIN KEIGHTLEY, of Lofthouse, Wakefield, in the County of York, Coal Viewer, for an invention for—"An improved apparatus for indicating and registering the flow or supply of air to mines and other places requiring ventilation." *Provisional protection only.*
WEST. 19th November 1857.	**2915.** CLEMENT LAWRENCE WEST, of No. 25, Rupert Street, Haymarket, in the County of Middlesex, for an invention for—"Improvements in window sashes."—*A communication.* *Letters Patent sealed.*
HINKS. WELLS. PETIT. 20th November 1857.	**2916.** JOHN HINKS, and GEORGE WELLS, of Birmingham, in the County of Warwick, Manufacturers and Copartners, and JOSEPH LETIERE PETIT, of Aston, near Birmingham aforesaid, Tool Maker, for an invention for—"An improvement or improvements in metallic pens." *Provisional protection only.*
DENTON. 20th November 1857.	**2917.** JOSEPH DENTON, of Pendleton, near Manchester, in the County of Lancaster, for an invention for—"Improvements in looms." *Letters Patent sealed.*
WALKER. BEAUMOUNT. GOTHARD. 20th November 1857.	**2918.** HENRY WALKER, of Sand Field House, Mirfield, in the County of York, Manufacturer, JAMES BEAUMOUNT, of the same place, Engineer, and JOSEPH GOTHARD, of Huddersfield, in the same County, Mechanic, for an invention for—"Improvements in steam-engines." *Letters Patent sealed.*
PAGE. 20th November 1857.	**2919.** HENRY PAGE, of Whitechapel Road, in the County of Middlesex, Lead and Glass Merchant, for an invention for—"Improvements in the manufacture of sheet and crown glass." *Provisional protection only.*
BRUSSAUT. 20th November 1857.	**2920.** PIERRE ALPHONSE BRUSSAUT, of Mont de Marsan, Town in the French Empire, Civil Engineer, for an invention for—"An improved anti-friction apparatus for shafts, axles, and other revolving surfaces." *Letters Patent sealed.*
BESSEMER. 20th November 1857.	**2921.** HENRY BESSEMER, of Queen Street Place, New Cannon Street, in the City of London, for an invention for—"Improvements in the manufacture of iron and steel." *Letters Patent sealed; no specification filed.*
COOPER. 21st November 1857.	**2922.** WILLIAM ARCHIBALD COOPER, of Dungannon, Ireland, Railway Contractor, for an invention for—"Improvements in the navigation of steam and other vessels." *Letters Patent sealed.*
GLOVER. BAIN. 21st November 1857.	**2923.** THOMAS GLOVER, of Upper Chadwell Street, Myddleton Square, in the County of Middlesex, Manufacturer, and ALEXANDER BAIN, of Fetter Lane, Holborn, in the same County, Electric Telegraph Engineer, for an invention for—"Improvements in electric telegraphs." *Letters Patent sealed.*
DE CHODZKO. 21st November 1857.	**2924.** NAPOLEON FELIX BOREIKO DE CHODZKO, of Paris, in the French Empire, Civil Engineer, for an invention for—"Improvements in furnaces for heating boilers." *Provisional protection only.*
BENSEN. 21st November 1857.	**2925.** GERD JACOB BENSEN, of Christian Street, St. George's in the East, Sugar Refiner, for an invention for—"An improvement in the manufacture of moulded sugar." *Letters Patent sealed.*
HALL. 21st November 1857.	**2926.** SAMUEL HALL, of 19, King's Arms Yard, Moorgate Street, in the City of London, Civil Engineer, for an invention for—"An improvement in apparatus for igniting matches and other articles." *Provisional protection only.*
FABART. 21st November 1857.	**2927.** JEAN MARIE AUGUSTE EUGÈNE FABART, of Paris, in the Empire of France, Manufacturer, for an invention for—"Improvements in looms for weaving." *Letters Patent sealed.*

WRIGHT.
21st November 1857.

2928. JAMES WRIGHT, of 10, Alfred Place, Newington Causeway, County of Surrey, Civil Engineer, for an invention for—"Improvements in the mode of treating madder for printing, dying, and distilling purposes, and also in the preparation and treatment of silk, cotton, and woollen cloth for printing and dying."—*A communication.* *Provisional protection only.*

RILEY.
23rd November 1857.

2929. SAMUEL RILEY, of 1ª, Victoria Terrace, Victoria Street, Manchester, for an invention for—"An improvement in the preparation of chocolate and cocoa." *Letters Patent sealed.*

M'FARLANE.
23rd November 1857.

2930. WALTER M'FARLANE, of Glasgow, in the County of Lanark, North Britain, Engineer, for an invention for—"Improvements in moulding or manufacturing cast iron pipes and other generally similar hollow articles." *Letters Patent sealed.*

JOHNSON.
23rd November 1857.

2931. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of 166, Buchanan Street, in the City of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in ships' signal lanterns."—*A communication from Hector L. Stevens, of Washington, in the United States of America.* *Letters Patent sealed.*

BARLOW.
23rd November 1857.

2932. CHARLES BARLOW, of the Office for Patents, 89, Chancery Lane, London, for an invention for—"Improvements in steam and air engines, and furnaces therefor." *A communication.* *Letters Patent sealed; specification filed by order.*

NEWTON.
23rd November 1857.

2933. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"Certain improvements in sewing-machines."—*A communication.* *Letters Patent sealed.*

HULETT.
23rd November 1857.

2934. DAVID HULETT, of 55 and 56, High Holborn, London, for an invention for—"Improvements in cocks, taps, and valves, and in joints for pipes and tubes." *Letters Patent sealed.*

BORDAS.
24th November 1857.

2935. EMMANUEL OCTAVE BORDAS, (Eldest,) Agent, living 36, Bond Street, Piccadilly, London, for an invention for—"An improvement in billiard cues."—*A communication.* *Provisional protection only.*

WILKINSON.
24th November 1857.

2936. THOMAS COXON WILKINSON, of Ashford, in the County of Kent, Engineer, for an invention for—"Improvements in pump valves." *Provisional protection only.*

SCHLOSS.
24th November 1857.

2937. JOSEPH SCHLOSS, of 75, Cannon Street West, City, Merchant, for an invention for—"A so called diana lock or improved fastening." *Letters Patent sealed.*

LOWRY.
24th November 1857.

2938. GEORGE LOWRY, of Salford, in the County of Lancaster, Machinist, for an invention for—"Certain improvements in machinery for heckling flax and other fibrous materials." *Letters Patent sealed.*

SEARBY.
24th November 1857

2939. WILLIAM SEARBY, of Newgate Street, in the City of London, Engraver, for an invention for—"An improved form of elastic spring applicable to bedsteads, sofas, chairs, the padding and seats of carriages, and other similar purposes."—*A communication.* *Letters Patent sealed.*

SANDS.
24th November 1857.

2940. CHARLES SANDS, of Felix Terrace, Liverpool Road, in the County of Middlesex, Licensed Victualler, for an invention for—"Improvements in stereoscopes." *Letters Patent sealed.*

BUTLER.
24th November 1857.

2941. AUGUSTUS FREDERICK BUTLER, of Ceylon, for an invention for—"Improvements in machinery for pulping coffee." *Letters Patent sealed.*

LEMAIRE.
25th November 1857.

2942. FRÉDÉRIQUE LEMAIRE, of Tavistock Street, Covent Garden, in the County of Middlesex, Lithographer, for an invention for—"An improved petticoat for ladies' wear."—*A communication.* *Provisional protection only.*

WILLAN.
ABBOTT.
MILLS.
25th November 1857.

2943. ROBERT WILLAN, JAMES ABBOTT, and DANIEL MILLS, all of Blackburn, in the County of Lancaster, for an invention for—"Improvements in looms." *Letters Patent sealed.*

MABERLY.
25th November 1857.

2944. FREDERICK HERBERT MABERLY, of Stowmarket, in the County of Suffolk, Master of Arts, for an invention for—"An improved general polishing machine or apparatus." *Letters Patent sealed.*

MARTIN.
MARTIN.
25th November 1857.

2945. ANTOINE MARTIN, and JEAN MARTIN, of Trieste, Austria, Merchants, for an invention for—"Improvements in cleaning and in preventing the formation of deposits and incrustations in steam-boilers." *Letters Patent sealed.*

BERNARD.
25th November 1857.

2946. CAMILLE BERNARD, of 39, Rue de l'Echiquier, Paris, in the Empire of France, and of 4, South Street, Finsbury, London, for an invention for—"Certain improvements in heating apparatus."—*A communication.* *Provisional protection only.*

HOGG.
25th November 1857.

2947. JAMES HOGG, of London, in the County of Middlesex, Civil Engineer, for an invention for—"An improved safe or depository for cash, deeds or other valuables." *Provisional protection only.*

TISDALL.
25th November 1857.

2948. EDMUND CHARLES TISDALL, of Holland Park Farm, Kensington, in the County of Middlesex, Farmer, for an invention for—"Improvements in the mode of preserving animal and vegetable fluids, and fluids containing animal and vegetable substances." *Provisional protection only.*

MANNING.
26th November 1857.

2949. WILLIAM THOMAS MANNING, of 20, Great George Street, in the City of Westminster, Gentleman, for an invention for—"Improvements in the treatment of sewerage and in the apparatus employed therein." *Provisional protection only.*

BLINKHORN.
26th November 1857.

2950. WILLIAM BLINKHORN, of Sutton, near St. Helen's, in the County of Lancaster, Manager of the London and Manchester Glass Company, for an invention for—"Certain improvements in machinery or apparatus for grinding and smoothing and for polishing glass." *Letters Patent sealed.*

FARROW.
26th November 1857.

2951. CHARLES FARROW, of Great Tower Street, in the City of London, for an invention for—"An improvement in fire-arms." *Provisional protection only.*

SHONER.
26th November 1857.

2952. JOHN FREDERICK SHONER, of 4, Church Street, Kennington, in the County of Surrey, Baker, for an invention for—"Improvements in common road carriages." *Provisional protection only.*

WOODWARD.
26th November 1857.

2953. HENRY WOODWARD, of Birmingham, in the County of Warwick, Commercial Agent, for an invention for—"A new or improved knife cleaner." *Provisional protection only.*

RUSTON.
PROCTOR.
26th November 1857.

2954. JOSEPH RUSTON, and JAMES TOYNE PROCTOR, of Lincoln, Engineers, for an invention for—"An improved arrangement of machinery for dressing grain." *Letters Patent sealed.*

HIGHAM.
BELLAMY.
26th November 1857.

2955. JAMES HIGHAM, and GEORGE DAVID BELLAMY, of Plymouth, in the County of Devon, Soap Manufacturers, for an invention for—"An improvement in the manufacture of soap." *Letters Patent sealed.*

TAYLOR.
27th November 1857.

2956. WILLIAM BOWERS TAYLOR, of Ballymena, in the County of Antrim, in Ireland, Dyer and Finisher, for an invention for—"Improvements in driving looms for weaving." *Letters Patent sealed.*

WHEELER.
27th November 1857.

2957. THOMAS WHEELER, of the Albion Works, in the City of Oxford, Engineer, for an invention for—"Improvements in machinery or apparatus for cutting turnips, and other roots." *Provisional protection only.*

WRIGHT.
GREEN.
27th November 1857.

2958. SAMUEL BARLOW WRIGHT, and HENRY THOMAS GREEN, of Rugby, for an invention for—"Improvements in apparatus used in the manufacture of bricks, pipes, and tiles." *Letters Patent sealed.*

ELCOCK.
BENTLEY.
27th November 1857.

2959. WILLIAM ELCOCK, of Wednesbury, in the County of Stafford, Manufacturer, and SAMUEL BENTLEY, of Wednesbury aforesaid, Smith, for an invention for—"Improvements in elbows used for joining wrought iron and other pipes or tubes, and in tools for manufacturing the said elbows." *Letters Patent sealed.*

PEACH.
28th November 1857.

2960. BENJAMIN PEACH, of the Town and Borough of Leicester, in the County of Leicester, Gentleman, for an invention for—"Sundry improvements in bedsteads, elastic bed bottoms, the seats of chairs, sofas, and other similar articles."—*A communication.* *Provisional protection only.*

VANDELEUR.
28th November 1857.

2961. ARTHUR VANDELEUR, of the Royal Arsenal, Woolwich, in the County of Kent, Major in the Royal Artillery, for an invention for—"Improvements in the construction of fire-places and passages for air of air furnaces, by which (without machinery) the intensity of the fire is increased, the saving of fuel effected, and the smoke consumed." *Letters Patent sealed.*

PETERS.
28th November 1857.

2962. JULES PETERS, of Eupen, in the Kingdom of Prussia, and 4, South Street, Finsbury, London, for an invention for—"Certain improvements in the machinery used in spinning." *Provisional protection only.*

MENNONS.
28th November 1857.

2963. MARC ANTOINE FRANÇOIS MENNONS, of the British and Foreign Patent Offices, 39, Rue de l'Echiquier, Paris, in the Empire of France, and 4, South Street, Finsbury, London, for an invention for—"An improved 'tell tale' clock or time keeper."—*A communication.* *Provisional protection only.*

CHASSEPOT.
28th November 1857.

2964. ANTOINE ALPHONSE CHASSEPOT, of Paris, (France,) Gun Maker, for an invention for—"Improvements in breech loading fire-arms." *Letters Patent sealed.*

BINNS.
28th November 1857.

2965. WILLIAM BINNS, of Claremont Villa, Victoria Grove, Brompton, in the County of Middlesex, Consulting Engineer, for an invention for—"Certain improvements in the treatment and application of surcharged or superheated steam." *Provisional protection only.*

TINDALL.
28th November 1857.

2966. ROBERT TINDALL, Junior, of Fraserburgh, in the County of Aberdeen, North Britain, Engineer, for an invention for—"Improvements in harpoon guns and ammunition." *Letters Patent sealed.*

MASSEY.
28th November 1857.

2967. WILLIAM MASSEY, of Newport, in the County of Salop, Engineer, for an invention for—"Improvements in guides or conductors to be applied to machinery or apparatus employed for winding or coiling chains, ropes, lines, thread, wire or other similar articles." *Provisional protection only.*

GRICE.
28th November 1857.

2968. FREDERIC GROOM GRICE, of West Bromwich, in the County of Stafford, Manufacturer, for an invention for—"New or improved machinery for the manufacture of bolts, spikes, rivets, screw blanks, and other articles of like manufacture." *Letters Patent sealed.*

GARDNER.
LEE.
PEARCE.
30th November 1857.

2969. JOSEPH GARDNER, and RICHARD LEE, of Liverpool, in the County of Lancaster, Mast Makers, and HENRY GEORGE PEARCE, of the same place, Master Mariner, for an invention for—"Improvements for self reefing sails." *Provisional protection only.*

NICHOLS.
30th November 1857.

2970. JOHN NICHOLS, of Pendleton, near Manchester, in the County of Lancaster, Manager for Sir Elkanah Armitage and Sons, Cotton Spinners and Manufacturers, for an invention for—"Improvements in machinery or apparatus used for sizing yarns or threads." *Letters Patent sealed.*

DEACON.
30th November 1857.

2971. HENRY DEACON, of the Woodend Chemical Works, Widnes Dock, near Warrington, in the County of Lancaster, Manufacturing Chemist, for an invention for—"Improvements in apparatus employed in the manufacture or production of caustic soda from liquors obtained in the manufacture of alkali, and applicable also to the manufacture or production of soap." *Letters Patent sealed.*

KAYE.
30th November 1857.

2972. THOMAS KAYE, of Grange Moor, Whitley Lower, near Dewsbury, in the County of York, for an invention for—"Improvements in looms for weaving." *Letters Patent sealed.*

DE LA FONS.
30th November 1857.

2973. JOHN PALMER DE LA FONS, of Carlton Hill, St. John's Wood, in the County of Middlesex, for an invention for—"Improvements in apparatus for retarding omnibuses and other carriages." *Provisional protection only.*

MONTEL.
30th November 1857.

2974. PIERRE AMBROISE MONTEL, of Paris, in the French Empire, Civil Engineer, for an invention for—"An improved motive power." *Provisional protection only.*

BROOMAN.
30th November 1857.

2975. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, E.C., Editor of the Mechanics' Magazine, and Patent Agent, for an invention for—"Improvements in casks and other vessels for containing liquids."—*A communication from André Zoubschaninoff.* *Letters Patent sealed.*

CLARK.
30th November 1857.

2976. DANIEL KINNEAR CLARK, of 11, Adam Street, Adelphi, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in furnaces for promoting the combustion of fuel without smoke and the communication of heat, specially adapted to steam-boilers." *Letters Patent sealed.*

GOODYEAR.
30th November 1857.

2977. CHARLES GOODYEAR, of Leicester Square, in the County of Middlesex, Gentleman, for an invention for—"Improvements in the manufacture of buoyant fabrics which are applicable to the manufacture of garments, carpets, rugs, cushions, mattresses, bags, and various other useful articles." *Letters Patent sealed.*

HOWARD. 30th November 1857.

2978. JAMES HOWARD, of Bedford, Agricultural Implement Maker, for an invention for—"Improvements in the construction of ploughs."—*Letters Patent sealed.*

NEWTON. 30th November 1857.

2979. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"Improved machinery for cleaning carpets and other fabrics."—*A communication.* *Provisional protection only.*

COUY. 30th November 1857.

2980. JEAN BAPTISTE COUY, of Nantes, in the Empire of France, Ship Owner, for an invention for—"Improvements in the manufacture of manure and for the disinfection of animal and vegetable matters." *Letters Patent sealed.*

SOLOMON. 30th November 1857.

2981. SIMON SOLOMON, of Wood Street, Spitalfields, in the County of Middlesex, Umbrella and Walking Stick Manufacturer, for an invention for—"Improvements in umbrella, parasol, and walking sticks or canes." *Provisional protection only.*

YOUNG. 1st December 1857.

2982. JAMES YOUNG, of the City of Glasgow, Manufacturing Chemist, for an invention for—"Improvements in measuring liquids." *Letters Patent sealed.*

SPRAY. 1st December 1857.

2983. FREDERIC GEORGE SPRAY, of London, in the County of Middlesex, Engineer, for an invention for—"Improvements in the manufacture of gunpowder." *Provisional protection only.*

HIPKISS. OLSEN. 1st December 1857.

2984. RICHARD HIPKISS, of Birmingham, in the County of Warwick, Metal Roller, and WILLIAM OLSEN, of Birmingham, aforesaid, Machinist, for an invention for—"Improvements in lubricating shafts and axles and other articles requiring lubrication." *Letters Patent sealed.*

LANE. 1st December 1857.

2985. DENNY LANE, of Cork, in the County of the City of Cork, Secretary of the Cork Gas Consumers Company, for an invention for—"Improvements in lighting, regulating, and extinguishing street and other gas lamps, by means of electricity." *Letters Patent sealed.*

THOMPSON. 1st December 1857.

2986. THOMAS JEFFERSON THOMPSON, of Greenwood Park, Newry, in the County of Down, Ireland, Mechanical Engineer, for an invention for—"Improvements in apparatus for lighting railway trains with gas." *Letters Patent sealed.*

SHEPARD. 2nd December 1857.

2987. EDWARD CLARENCE SHEPARD, of Jermyn Street, in the County of Middlesex, Esquire, for an invention for—"Improvements in magneto-electric machines." *Letters Patent sealed.*

SUMMERS. WORMALD. 2nd December 1857.

2988. JOHN SUMMERS, of Stalybridge, in the County of Chester, Cut Nail and Clog Iron Manufacturer, and DAVID WORMALD, of Dukinfield, in the same County, Mechanic, for an invention for—"Improvements in machinery for manufacturing clog irons, and heels and tips for boots or other coverings for the feet." *Letters Patent sealed.*

ECCLES. 2nd December 1857.

2989. JOSEPH ECCLES, of Blackburn, in the County of Lancaster, Cotton Spinner, for an invention for—"Improvements in drying and colouring or ornamenting bricks, tiles, pipes, and other articles made of plastic earths." *Letters Patent sealed.*

HETHERINGTON. 2nd December 1857.

2990. JOSEPH HETHERINGTON, of Birmingham, in the County of Warwick, Brass Founder, for an invention for—"A new or improved manufacture of the bowls of castors for furniture." *Provisional protection only.*

BIRD. ASHTON. BIRD. 2nd December 1857.

2991. WILLIAM BIRD, of Blackburn, in the County of Lancaster, Machinist, RICHARD ASHTON, of the same place, Overlooker, and THOMAS BIRD, of Manchester, in the said County, Engineer, for an invention for—"Improvements in looms and pickers for looms." *Letters Patent sealed.*

THOMSON. 2nd December 1857.

2992. WILLIAM THOMSON, of Dalkeith Park Gardens, in the County of Midlothian, North Britain, Gardener, for an invention for—"Improvements in machinery or apparatus for propelling ships or vessels." *Provisional protection only.*

MOIREAU. 2nd December 1857.

2993. CHARLES JEAN MICHEL MOIREAU, Merchant, of 23, Avenue de la Porte Maillot, Passy, near Paris, France, for an invention for—"A composition to be used as a substitute for bees' wax." *Provisional protection only.*

FOWLER. WORBY. 2nd December 1857.

2994. JOHN FOWLER, junior, of 28, Cornhill and WILLIAM WORBY, of Ipswich, for an invention for—"Improvements in apparatus used when ploughing, tilling, or cultivating land." *Letters Patent sealed.*

FRANCIS. MANBY. 2nd December 1857.

2995. JOSEPH FRANCIS, of the United States of America, now of Liverpool, and CHARLES MANBY, of Great George Street, Westminster, C.E., for an invention for—"Improvements in the manufacture of waggons and other vehicles applicable to the transport of troops and military and other stores on land and water." *Letters Patent sealed.*

PARKES. PARKES. 2nd December 1857.

2996. ALEXANDER PARKES, and HENRY PARKES, of Birmingham, for an invention for—"Improvements in the manufacture of sheathing-metals." *Letters Patent sealed.*

LIVESEY. 2nd December 1857.

2997. JOHN LIVESEY, of New Lenton, in the County of Nottingham, Lace Manufacturer, for an invention for—"Improvements in the manufacture of pile fabrics and in the machinery employed therein." *Letters Patent sealed.*

CICERI. 3rd December 1857.

2998. LOUIS FREDERIC ERNEST CICERI, of No. 38, Rue Pigale, in the City of Paris, Artist, for an invention for—"Improvements in the preparation of white as a basis of color." *Letters Patent sealed; no specification filed.*

BOUSFIELD. 3rd December 1857.

2999. GEORGE TOMLINSON BOUSFIELD, of Loughboro' Park, Brixton, in the County of Surrey, for an invention for—"Improvements in collapsible boats."—*A communication.* *Letters Patent sealed.*

HAZARD. 3rd December 1857.

3000. ROBERT HAZARD, of Thanet Place, Temple Bar, in the County of Middlesex, Engineer, for an invention for—"Improvements in a self acting reclining chair or couch." *Letters Patent sealed.*

SLACK. 3rd December 1857.

3001. ELIJAH SLACK, of Glasgow, in the County of Lanark, North Britain, Manufacturing Chemist, for an invention for—"Improvements in the treatment, application, and use of wheat and other grains and amylaceous vegetable substances." *Letters Patent sealed.*

REEVE. 3rd December 1857.

3002. JOHN REEVE, of 46, Rutland Gate, in the County of Middlesex, Gentleman, for an invention for—"Improvements in propelling vessels." *Provisional protection only.*

HENWOOD. 3rd December 1857.

3003. CHARLES HENWOOD, of the City of Oxford, Engineer, for an invention for—"An improved arrangement of galvanic battery suitable for medical purposes." *Letters Patent sealed.*

PARSONS. ATTREE. 3rd December 1857.

3004. WILLIAM PARSONS, and JAMES ATTREE, both of Brighton, in the County of Sussex, Engineers, for an invention for—"An improved cock or tap and flushing-apparatus." *Letters Patent sealed.*

BUCHANAN. 4th December 1857.

3005. JAMES BUCHANAN, of Liverpool, in the County of Lancaster, Engineer, for an invention for—"Improvements in smoke consuming apparatus applicable to boiler and other furnaces." *Letters Patent sealed.*

RIPLEY. 4th December 1857.

3006. ABRAHAM RIPLEY, of St. Helen's, in the County of Lancaster, Engineer and Millwright, for an invention for—"Improvements in mills for grinding myrabolams, valonia bark, and other similar substances." *Provisional protection only.*

HAMILTON. 4th December 1857.

3007. JAMES HAMILTON, of Halifax, in the County of York, Wire Worker, for an invention for—"Improvements in the construction of 'strained wire fencing' for dividing fields, parks, and pleasure grounds." *Provisional protection only.*

DEACON. 4th December 1857.

3008. HENRY DEACON, of the Woodend Chemical Works, Widnes Dock, near Warrington, in the County of Lancaster, Manufacturing Chemist, for an invention for—"Improvements in the manufacture or production of soda and potash." *Provisional protection only.*

RUBERY. 4th December 1857.

3009. JOHN RUBERY, Umbrella and Parasol Manufacturer, of Birmingham, in the County of Warwick, for an invention for—"Certain improvements in the manufacture of umbrellas and parasols, and the application of a new condition of material to the production of some of the parts thereof that has not heretofore been used for that purpose." *Letters Patent sealed.*

D'HELLE. DE WARESQUIEL. 4th December 1857.

3010. JULIEN D'HELLE, Civil Engineer, and ALBERT VISCOUNT DE WARESQUIEL, Gentleman, both of Paris, (France,) for an invention for—"Improvements in railway rolling stock." *Letters Patent sealed.*

SEWERS.
4th December 1857.

3011. SAMUEL HENRY SEWERS, of Curry Rivel, in the County of Somerset, for an invention for—"An improved powder for dusting turnips, and machinery for distributing the same, which may be employed for similar useful purposes."
Provisional protection only.

GRIZARD.
4th December 1857.

3012. JOSEPH GRIZARD, of Nevers, in the Empire of France, Watchmaker, for an invention for—"Improvements in watches and in the means of or for winding up and setting watches." *Letters Patent sealed.*

STANDRING.
4th December 1857.

3013. WILLIAM STANDRING, of Bury Road, Rochdale, in the County of Lancaster, Doffing Plate and Spring Maker, for an invention for —"An improved throstle and mulespring for the underclearers of spinning-machines." *Letters Patent sealed.*

MORTON.
HOWDEN.
4th December 1857.

3014. ALEXANDER MORTON, of Glasgow, in the County of Lanark, North Britain, Engineer, and JAMES HOWDEN, of the same place, Engineer, for an invention for —"Improvements in obtaining motive-power." *Letters Patent sealed.*

OSTROROG.
5th December 1857.

3015. STANISLAS JULES COUNT OSTROROG, of Paris, in the Empire of France, for an invention for—"A wind musical instrument." *Provisional protection only.*

CALDWELL.
5th December 1857.

3016. WILLIAM CALDWELL, of Liverpool, in the County of Lancaster, Engineer, for an invention for—"An improved fluid meter which may be used as a motive-power engine." *Provisional protection only.*

MENNONS.
5th December 1857.

3017. MARC ANTOINE FRANÇOIS MENNONS, of the British and Foreign Patent Offices, 39, Rue de l'Echiquier, Paris, in the Empire of France, and of 4, South Street, Finsbury, London, for an invention for—"Improvements in lucifer matches."—*A communication.* *Letters Patent sealed.*

MERCER.
BODDEN.
HIGGINSON.
5th December 1857.

3018. WILLIAM MERCER, WILLIAM BODDEN, and WILLIAM HIGGINSON, all of the firm of Messieurs Higginson and Company, of Oldham, in the County of Lancaster, Spindle and Flyer Makers, for an invention for—"Improvements in certain parts of machinery for slubbing and roving cotton." *Letters Patent sealed.*

ADSHEAD.
HOLDEN.
5th December 1857.

3019. THOMAS SIDEBOTTOM ADSHEAD, of North End, near Stalybridge, in the County of Chester, Cotton Spinner, and ABRAHAM HOLDEN, of the same place, Cotton Carder, for an invention for—"An improved self acting combination of machinery for the grinding of carding-engine rollers." *Letters Patent sealed.*

HENLEY.
5th December 1857.

3020. WILLIAM THOMAS HENLEY, of 46, St. John Street Road, London, Telegraph Engineer, for an invention for—"Improvements in ropes and cables for telegraphic or other purposes, and in machinery used in the manufacture of such and other ropes and cables." *Letters Patent sealed.*

BRINTON.
CRABTREE.
5th December 1857.

3021. JOHN BRINTON, of Kidderminster, in the County of Worcester, Carpet Manufacturer, and JAMES CRABTREE, of the same place, Mechanic, for an invention for—"Improvements in the preparation of weft yarn to be used in the manufacture of carpets and other pile fabrics." *Letters Patent sealed.*

SINCLAIR.
5th December 1857.

3022. JAMES SINCLAIR, of Hill Street, in the County of Middlesex, for an invention for—"Improvements in machinery or apparatus for cutting or dividing stone and marble." *Letters Patent sealed.*

WARD.
5th December 1857.

3023. FREDERICK OLDFIELD WARD, of Cork Street, Burlington Gardens, London, for an invention for—"Improvements in manufacturing manure and obtaining accessory products."—*Partly a communication from Frederick Wynants, residing in Belgium.* *Complete Specification; Letters Patent sealed.*

NEWTON.
5th December 1857.

3024. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Certain improvements in apparatus for laying submarine telegraphic cables."—*A communication.* *Letters Patent sealed.*

HILEY.
HILEY.
HARGREAVES.
HALEY.
7th December 1857.

3025. DANIEL HILEY, and PERCIVAL HILEY, of Bradford, Mechanics, and WILLIAM HARGREAVES, and ENOCH HALEY, of Bradford, Iron Manufacturers, all in the West Riding of the County of York, for an invention for—"Improvements in power looms for weaving worsted, cotton, silk, woollen, and other fibrous substances." *Provisional protection only.*

LAVATER.
7th December 1857.

3026. MANUEL LEOPOLD JONAS LAVATER, of No. 71, Herbert Street, Hoxton, for an invention for—"Improvements in laying down telegraphic cables in the sea." *Provisional protection* NOT *granted.*

COLE.
7th December 1857.

3027. CHARLES COLE, of No. 30, Beekman Street, in the City and State of New York, United States of America, for an invention for—"Reproducing or making leather from the shavings, trimmings, cuttings, scraps, and waste pieces of hides and leather."—*First introduced by him within the Realm.*

Provisional protection NOT *granted.*

STIFF.
7th December 1857.

3028. JAMES STIFF, of the London Pottery, High Street, Lambeth, for an invention for—"Improvements in drain pipes." *Provisional protection only.*

GREENWELL.
SELBY.
7th December 1857.

3029. GEORGE C. GREENWELL, and WILLIAM SELBY, of Radstock, in the County of Somerset, for an invention for—"An improved machine for washing coals and other minerals, and for separating them from other substances."

Provisional protection only.

HARRIS.
7th December 1857.

3030. JAMES HARRIS, of Hanwell, in the County of Middlesex, Engineer, for an invention for—"Improvements in signalling and in apparatuses employed therein, part of which is applicable to the compression and exhaustion of air and other fluids."

Letters Patent sealed.

REEVES.
REEVES.
7th December 1857.

3031. ROBERT REEVES, and JOHN REEVES, of Bratton, near Westbury, in the County of Wilts, for an invention for—"Improvements in implements for depositing seed and manure." *Provisional protection only.*

HOLCROFT.
DENHOLM.
8th December 1857.

3032. GEORGE HOLCROFT, of the City of Manchester, Consulting Engineer, and GEORGE DENHOLM, of Wigan, in the County of Lancaster, Consulting Engineer, for an invention for—"Certain improvements in steam engines."—*Letters Patent sealed.*

SHAW.
8th December 1857.

3033. BENJAMIN SHAW, of Wellington, in the County of Salop, Builder, for an invention for—"An improvement or improvements in the construction of windows."

Letters Patent sealed.

PERSHOUSE.
8th December 1857.

3034. HENRY PERSHOUSE, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"An improvement or improvements in stereoscopes."

Provisional protection only.

OUTRAM.
8th December 1857.

3035. EDMUND OUTRAM, of Leeds, in the County of York, Engineer, for an invention for—"An improved steam regulator." *Provisional protection only.*

NIGHTINGALE.
8th December 1857.

3036. CHARLES NIGHTINGALE, of Wardour Street, Soho, in the County of Middlesex, Bedding Manufacturer, for an invention for—"Improvements in machinery for feeding hair and fibres intended to be spun or twisted."

Letters Patent sealed.

DOLMAN.
8th December 1857.

3037. HENRY DOLMAN, of Nelson Street, Greenwich, in the County of Kent, for an invention for—"An improved stand for 'cheval' and other dressing glasses."

Letters Patent sealed.

WARD.
8th December 1857.

3038. WILLIAM JONES WARD, of Chorlton-on-Medlock, Manchester, in the County of Lancaster, Chemist, for an invention for—"Improvements in dyeing and printing textile fabrics and materials, and in apparatus connected therewith."

Letters Patent sealed.

NEWTON.
8th December 1857.

3039. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Certain improvements in obtaining motive-power."—*A communication.*

Provisional protection only.

ROWAN.
8th December 1857.

3040. WILLIAM ROWAN, of the firm of John Rowan and Sons, Engineers and Iron Founders, of Belfast, for an invention for—"Improvements in spinning flax and other fibrous material, in preparing the same for weaving, and in the machinery employed therein." *Provisional protection only.*

BROOMAN.
8th December 1857.

3041. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, E.C., Patent Agent, for an invention for—"Improvements in cocks and valves for regulating the flow of fluids."—*A communication from P. J. Guyet, of Paris.* *Letters Patent sealed.*

WILLETT.
8th December 1857.

3042. THOMAS WILLIAM WILLETT, of 89, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in the manufacture of gunpowder, and in the machinery connected therewith." *Letters Patent sealed.*

DE BERGUE.
9th December 1857.

3043. CHARLES DE BERGUE, of No. 9, Dowgate Hill, in the City of London, Engineer, for an invention for—"An improved mode or modes of blowing, feeding, or introducing air into furnaces or other fireplaces." *Provisional protection only.*

CLARKE.
9th December 1857.

3044. SAMUEL CLARKE, of 55, Albany Street, Regent's Park, for an invention for—"An improvement in wicks for candles and night lights."
Letters Patent sealed.

WESTENDARP.
9th December 1857.

3045. CHARLES WESTENDARP, Junior, Commercial Agent, of Mincing Lane, in the City of London, Middlesex, for an invention for—"Preparing a material as a substitute for ivory, which he proposes calling 'Artificial ivory.'"
Letters Patent sealed.

SMITH.
9th December 1857.

3046. JOSEPH SMITH, Inspector of Permanent Way of the South Staffordshire Railway Company, of Walsall, in the County of Stafford, for an invention for—"Certain improvements in securing rails in their respective chairs for railroad permanent ways." *Letters Patent sealed.*

HADDON.
9th December 1857.

3047. JOHN HADDON, of the firm of Haddon and Hitchin, Screw Manufacturers, Glover Street Works, Birmingham, in the County of Warwick, for an invention for—"Certain improvements in the manufacture of wood screws, a portion of which is also applicable to the manufacturing of certain descriptions of nails."
Letters Patent sealed.

RIDDLE.
9th December 1857.

3048. WILLIAM RIDDLE, of 4, Stonefield Terrace, Liverpool Road, in the County of Middlesex, for an invention for—"Improvements in steam-engines."
Provisional protection only.

HODDELL.
10th December 1857.

3049. JAMES HODDELL, of Northampton Square, Clerkenwell, in the County of Middlesex, and of Coventry, in the County of Warwick, Watch Manufacturer, for an invention for—"An improvement in watches." *Letters Patent sealed.*

COX.
10th December 1857.

3050. RICHARD REEVES COX, of Kentish Town, in the County of Middlesex, for an invention for—"Improvements in the manufacture of fire lighters, and in apparatus or stoves for burning the same." *Provisional protection only.*

THER-KATZ.
10th December 1857.

3051. GUILLAUME THER-KATZ, of Paris, Merchant, for an invention for—"An improved registering and controlling apparatus for hackney coach and other public carriages." *Provisional protection only.*

BEST.
10th December 1857.

3052. ISAAC ARROWSMITH BEST, of Saint Paul's Square, Birmingham, in the County of Warwick, Surgical Mechanist, for an invention for—"A new or improved mode of manufacturing printing-types." *Provisional protection only.*

BIGGIN.
BIGGIN.
10th December 1857.

3053. SAMUEL BIGGIN, of Sheffield, and JOSHUA BIGGIN, of the same place, White-metal Smiths, for an invention for—"Improvements in the construction of the handles of tea and coffee pots and other similar articles." *Letters Patent sealed.*

CHADWICK.
ELLIOTT.
11th December 1857.

3054. JOHN CHADWICK, of the City of Manchester, Silk Manufacturer, and ARTHUR ELLIOTT, of West Houghton, in the County of Lancaster, Mechanic, in the employ of the said John Chadwick, for an invention for—"Improvements in machinery for spinning, doubling, and throwing silk." *Letters Patent sealed.*

TANTON.
11th December 1857.

3055. JOSEPH TANTON, of Frederick Street, Caledonian Road, in the County of Middlesex, Veterinary Surgeon, for an invention for—"Improvements in shepherds' crooks." *Provisional protection only.*

GEDGE.
11th December 1857.

3056. JOHN GEDGE, of No. 4, Wellington Street South, Strand, in the County of Middlesex, Patent Agent, for an invention for—"Improvements in the process of rectifying liquids, and in the apparatus used therewith."—*A communication from Regis Minodier, of Paris, in the Empire of France.* *Provisional protection only.*

STATHER.
11th December 1857.

3057. JOHN STATHER, of Hull, in the County of York, Printer, for an invention for—"Improvements in producing surfaces in imitation of wood for printing from."
Letters Patent sealed.

DENNE.
11th December 1857.

3058. WILLIAM DENNE, of the County Lunatic Asylum, Bedford, Surgeon, for an invention for—"Improvements in apparatus used for lifting patients off beds and other surfaces used for reclining upon." *Letters Patent sealed.*

HALL.
11th December 1857.

3059. NATHANIEL RICHARD HALL, of Northfleet, in the County of Kent, for an invention for—"An apparatus for registering the phases and age of the moon."
Provisional protection only.

ROBERTS. BEALE. 11th December 1857.

3060. JULIUS ROBERTS, of St. Leonard's Iron Works, Poplar, in the County of Middlesex, Captain in the Royal Marine Artillery, and MILES BEALE, of Surrey Street, Strand, in the City of Westminster, Navy Agent, for an invention for—"Improved machinery for obtaining and applying motive-power, applicable chiefly to the working of ships' pumps and other mechanism on ship board." *Letters Patent sealed.*

PARKER. 12th December 1857.

3061. JAMES PARKER, of No. 4, Grove Terrace, Grove Road, Forest Vale, Sydenham, in the County of Kent, Solicitor's Clerk, for an invention for—"A novel application of steam power for the movement of vessels or other bodies floating on or suspended in water, air or other fluid, and for moving machinery and propelling solid bodies on land." *Provisional protection only.*

WALTON. 12th December 1857.

3062. FREDERICK WALTON, of Haughton Dale Mills, near the City of Manchester, Card Manufacturer, for an invention for—"Improvements in the manufacture of rollers used in machinery for preparing and spinning fibrous materials, and for other purposes where elastic pressure is required, also in the machinery employed in the manufacture of the said rollers." *Letters Patent sealed.*

PULS. 12th December 1857.

3063. FRANCIS PULS, of Haverstock Hill, in the County of Middlesex, Chemist, for an invention for—"A new combination of mineral substances for the production of artificial stone." *Provisional protection only.*

UREN. 12th December 1857.

3064. WILLIAM UREN, of Redruth, in the County of Cornwall, for an invention for—"Improvements in machinery for cleaning and dressing minerals." *Provisional protection only.*

DE NORMANN. HENLEY. 12th December 1857.

3065. JOHN DE NORMANN, Telegraphic Engineer, of the Kingdom of the Two Sicilies, Naples, and WILLIAM THOMAS HENLEY, of St. John Street Road, Telegraph Engineer, for an invention for—"Improvements in machinery for preventing the overlapping of chains or ropes when used on drums or shafts, which improvements can be applied to the laying of telegraphic cables." *Letters Patent sealed.*

COWPER. 12th December 1857.

3066. CHARLES COWPER, of No. 20, Southampton Buildings, Chancery Lane, in the County of Middlesex, Patent Agent, for an invention for—"Improvements in photography."—*A communication from Testud de Beauregard, of Paris, in France.* *Letters Patent sealed.*

PRÉAUD. 12th December 1857.

3067. JEAN MARIE PRÉAUD, of 53, Chancery Lane, London, and of 29, Boulevart Saint Martin, Paris, Civil Engineer, for an invention for—"An improved engine with rotary piston applicable to various purposes."—*A communication.* *Letters Patent sealed.*

CUNNINGHAM. 12th December 1857.

3068. HENRY DUNCAN PRESTON CUNNINGHAM, of Bury, in the County of Hants, Esquire, for an invention for—"Improvements in reefing and furling sails." *Letters Patent sealed.*

OLDFIELD. 14th December 1857.

3069. JOHN OLDFIELD, of Haughton, in the County of Lancaster, Engineer, for an invention for—"Improvements in machinery or apparatus for cutting and separating fur or hair or wool from hides or skins, which said improvements are also applicable to cutting vegetable or fibrous materials." *Provisional protection only.*

BUNTING. 14th December 1857.

3070. HORATIO BUNTING, of Colchester, in the County of Essex, Seed Grower, for an invention for—"Improved apparatus for obtaining and applying motive-power." *Letters Patent sealed.*

BRIGNON. 14th December 1857.

3071. JEAN PIERRE BRIGNON, of 39, Rue de l'Echiquier, Paris, in the Empire of France, and 4, South Street, Finsbury, London, E.C., for an invention for—"Certain improvements in forging." *Letters Patent sealed.*

LITTLE. 14th December 1857.

3072. WILLIAM LITTLE, of Queen's Road, Regent's Park, in the County of Middlesex, Gentleman, for an invention for—"Improvements in lamps." *Provisional protection only.*

PARKER. 14th December 1857.

3073. JOSEPH PARKER, of Liverpool, in the County of Lancaster, Gentleman, for an invention for—"Certain improvements in the construction of bedsteads." *Letters Patent sealed.*

BAIRD. 14th December 1857.

3074. ADAM BAIRD, of Finchett House, near Liverpool, in the County of Lancaster, Merchant, for an invention for—"Improvements in regulating the supply of water and other fluids for domestic and other purposes." *Provisional protection only.*

HOGG. 15th December 1857.

3075. JAMES HOGG, Junior, Publisher, of No. 18, St. Andrew Square, Edinburgh, in the County of Edinburgh, for an invention for—"An improvement in the manufacture of 'copying-paper.'" *Letters Patent sealed.*

SMITH. 15th December 1857.

3076. WILLIAM SMITH, of 10, Salisbury Street, Adelphi, Civil Engineer, for an invention for—"Improvements in chromotypographical printing presses."—*A communication from A. E. Rochette, of Vannes, but now of* 36, *Rue de l'Echiquier, Paris.* *Letters Patent sealed.*

BREFFITT. 15th December 1857.

3077. EDGAR BREFFITT, of 61, King William Street, in the City of London, Glass Manufacturer, for an invention for—"Improvements in the manufacture of glass bottles." *Letters Patent sealed.*

BRADLEY. 15th December 1857.

3078. JOHN BRADLEY, of Huddersfield, in the County of York, Ironmonger, for an invention for—"Improvements in ovens applicable for baking bread, and pastry, roasting or cooking meats, and similar purposes." *Letters Patent sealed.*

CHADWICK. 15th December 1857.

3079. JAMES CHADWICK, of Castleton Print Works, near Rochdale, in the County of Lancaster, Manager, for an invention for—"Improvements in rollers or cylinders for printing or staining the surfaces of woven fabrics, yarns, paper, and other materials." *Letters Patent sealed.*

TURNER. PEARCE. 15th December 1857.

3080. EDWIN TURNER, of Bradford, in the County of York, Iron Master, and JOHN CHARLES PEARCE, of Bowling, near Bradford, in the same County, Engineer, for an invention for—"Improvements in the manufacture of railway wheels." *Letters Patent sealed.*

BEDWELL. 15th December 1857.

3081. FRANCIS BEDWELL, of Bathwick Hill, Bath, in the County of Somerset, for an invention for—"Improved means of communicating between the passengers and guard and the guard and engine driver upon railways." *Provisional protection only.*

BOUSFIELD. 15th December 1857.

3082. GEORGE TOMLINSON BOUSFIELD, of Loughborough Park, Brixton, in the County of Surrey, for an invention for—"Improvements in the manufacture of cast steel."—*A communication from S^r D^r Diego Mason of Bilboa.* *Provisional protection only.*

GALLOWAY. GALLOWAY. 15th December 1857.

3083. WILLIAM GALLOWAY, and JOHN GALLOWAY, both of Manchester, in the County of Lancaster, Engineers, for an invention for—"Improvements in hydraulic presses." *Letters Patent sealed.*

HOWARD. 15th December 1857.

3084. THOMAS HOWARD, of the King and Queen Iron Works, Rotherhithe, Surrey, Engineer, for an invention for—"Improvements in machinery or apparatus for rolling iron bars used in the construction of suspension bridges and otherwise." *Letters Patent sealed.*

EVERITT. 15th December 1857.

3085. GEORGE ALLEN EVERITT, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"Improvements in the manufacture of tubes or cylinders of copper or alloys of copper." *Letters Patent sealed.*

SEELEY. 16th December 1857.

3086. JOHN FRANCIS SEELEY, of Everett Street, Brunswick Square, in the County of Middlesex, Boot Maker, for an invention for—"An improved machine or apparatus for cutting out materials used in the manufacture of boots, shoes, and other coverings for the feet." *Provisional protection only*

GIBSON. BERRISFORD. 16th December 1857.

3087. JAMES GREEN GIBSON, of Cheetham, Manchester, County of Lancaster, Machinist, and SAMUEL BERRISFORD, of Stockport, County of Cheshire, Machine Maker, for an invention for—"Improvements in looms for weaving, parts of which improvements are applicable to lubricating bearings generally." *Letters Patent sealed; no specification filed.*

THORNTON. 16th December 1857.

3088. JAMES THORNTON, of Nottingham, for an invention for—"Improvements in apparatus used for the manufacture of carpets and other cut pile fabrics." *Letters Patent sealed.*

MARLAND. 16th December 1857.

3089. JOHN MARLAND, of Fernlee Vale, near Upper Mill, Saddleworth, in the County of York, for an invention for—"Improvements in apparatus to facilitate the placing of cop tubes on to spindles." *Provisional protection only.*

SEMPLE. 16th December 1857.

3090. MATTHEW SEMPLE, of Stonehouse, in the County of Devon, Esquire, for an invention for—"Improvements in prescrving meat, fruit, vegetables, and other edible substances and fluids." *Provisional protection only.*

HILLS.
16th December 1857.

3091. EDWIN HILLS, of Warsash, in the Parish of Titchfield, in the County of Southampton, Merchant, for an invention for—"Improvements in the manufacture of white lead and in the working up of the waste materials." *Letters Patent sealed.*

GREGORY.
16th December 1857.

3092. HENRY GREGORY, of Manchester, in the County of Lancaster, Agent, for an invention for—"Certain improvements in machinery or apparatus for making 'lozenges' or other similar articles." *Letters Patent sealed.*

DICKSON.
16th December 1857.

3093. JAMES HILL DICKSON, of Stanley Terrace, Rotherhithe, in the County of Surrey, Manufacturer, for an invention for—"Improvements in machinery or apparatus for scutching and hackling flax, hemp, and other similar fibrous materials." *Povisional protection only.*

CREGEEN.
16th December 1857.

3094. JAMES JOSEPH CREGEEN, of Plough Road, Rotherhithe, in the County of Surrey, Doctor of Medicine, for an invention for—"Improvements in the treatment of India and China grass, pine apple, hemp, flax, and other similar fibrous materials, and in the machinery or apparatus employed therein." *Provisional protection only.*

TURNER.
TURNER.
17th December 1857.

3095. MONTAGUE JOHN TURNER, and MARCUS WILLIAM TURNER, of Woodcote, in the County of Surrey, Esquires, for an invention for—"The improvement of conduit pipes and tubes for sewers, drains, conduits, gas, and other purposes." *Letters Patent sealed; Specification filed by order.*

BLYTH.
17th December 1857.

3096. FRANCIS MOLLETT BLYTH, of Norwich, in the County of Norfolk, for an invention for—"Improved apparatus for cutting and pulping turnips and other roots." *Provisional protection only.*

BLIZZARD.
17th December 1857.

3097. WILLIAM BLIZZARD, of 14, Victoria Terrace, Nottinghill, in the County of Middlesex, for an invention for—"Improvements in the treatment of india-rubber by a new process, for the manufacture of a crystaline and colourless varnish, for waterproofing all kinds of textile fabrics and papers without smell and without in any degree altering their appearance, and for making divers varnishes and paints." *Provisional protection only.*

DAVIS.
17th December 1857.

3098. JOHN JAMES DAVIS, of Perceval Street, Clerkenwell, in the County of Middlesex, Die Sinker, for an invention for—"Improvements in presses for printing or endorsing and embossing." *Letters Patent sealed.*

MASON.
MARKLAND.
17th December 1857.

3099. MARK MASON, of Dukinfield, in the County of Chester, Machine Maker, and THOMAS MARKLAND, of Newton, near Hyde, in the same County, Warp Dresser, for an invention for—"Improvements in machinery or apparatus for printing." *Provisional protection only.*

BARTON.
17th December 1857.

3100. JOHN EVERARD BARTON, of Kidderminster, in the County of Worcester, Carpet Manufacturer, for an invention for—"An improvement in winding worsted on to the creel bobbins of carpet looms." *Complete specification; Letters Patent sealed.*

HIGHTON.
17th December 1857.

3101. EDWARD HIGHTON, of the Regent's Park, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in electric telegraphs." *Letters Patent sealed.*

JOHNSON.
17th December 1857.

3102. HENRY JOHNSON, of Crutched Friars, in the City of London, for an invention for—"Improvements in apparatus for drawing geometric curves." *Letters Patent sealed.*

BROAD.
17th December 1857.

3103. JAMES BROAD, Coach Spring and Carriage Lamp Manufacturer, Nos. 149 and 150, Drury Lane, Holborn, London, for an invention for—"The construction of a pressure or fountain lamp, to burn with safety from ignition in the overflow and from explosion all bituminous, carbonaceous, and resinous oils, spirits, and naphthas, or admixtures thereof, also the products of rangoon earth oil or petroleum, also to adapt all pressure and fountain lamps to burn these substances which are found to ignite in the overflow and cause explosion, &c. in all such lamps as at present constructed." *Complete specification; Letters Patent sealed.*

WOOFE.
17th December 1857.

3104. WILLIAM WOOFE, of Tetbury, in the County of Gloucester, Agricultural Implement Maker, for an invention for—"Improvements in ploughs." *Provisional protection only.*

JOHNSON.
17th December 1857.

3105. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of 166, Buchanan Street, in the City of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in lubricating the journals of shafts and spindles."—*A communication from Sylvain Pechet, of Paris, in the Empire of France, Mechanician.* *Provisional protection only.*

JOHNSON.
17th December 1857.

3106. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of 166, Buchanan Street, in the City of Glasgow, North Britain Gentleman, for an invention for—"Improvements in machinery or apparatus for hulling cotton and other oleaginous seeds, applicable also to the hulling of cerials."—*A communication from Charles Theodore Laborey, of Paris, in the Empire of France, Mechanician.* *Provisional protection only.*

HOWELL.
SHORTRIDGE.
18th December 1857.

3107. JOSEPH BENNETT HOWELL, and JOHN SHORTRIDGE, of Sheffield, in the County of York, for an invention for—"An improved mode of rolling steel for springs." *Letters Patent sealed.*

TAYLOR.
BARRETT.
18th December 1857.

3108. JOHN HORACE TAYLOR, of the Victoria Dock Road, in the County of Essex, Engineer, and ROBERT TATE BARRETT, of the same place, Gentleman, for an invention for—"Improvements in apparatus for the prevention of smoke and for effecting a better combustion of fuel in steam-boiler furnaces." *Provisional protection only.*

BOWLAS.
18th December 1857.

3109. DAVID BOWLAS, of Reddish, in the County of Lancaster, Cotton Spinner, for an invention for—"Improvements in machinery or apparatus for preparing and spinning cotton and other fibrous substances." *Provisional protection only.*

WILKINSON.
18th December 1857.

3110. THOMAS COXON WILKINSON, of Ashford, in the County of Kent, Engineer, for an invention for—"Improvements in pump-valves." *Provisional protection only.*

DARLING.
18th December 1857.

3111. SAMUEL DARLING, of the State of Maine, of the United States of America, for an invention for—"An improved pencil sharpener."—*Partly a communication from Joseph W. Strange.* *Complete specification; Letters Patent sealed.*

WINSLOW.
18th December 1857.

3112. CHARLES WINSLOW, of the State of Massachusetts, in the United States of America, for an invention for—"An improvement in the manufacture of elastic gore cloth." *Complete specification; Letters Patent sealed.*

NAPIER.
18th December 1857.

3113. JAMES MURDOCH NAPIER, of the York Road, Lambeth, Engineer, for an invention for—"Improvements in letter press printing-machines." *Letters Patent sealed.*

OXLAND.
18th December 1857.

3114. ROBERT OXLAND, of Plymouth, for an invention for—"Improvements in the manufacture of alloys or compounds containing metallic tungsten."—*A communication.* *Letters Patent sealed.*

NEWEY.
CORBETT.
PARKES.
19th December 1857.

3115. THOMAS NEWEY, of Birmingham, in the County of Warwick, Metallic Pen Manufacturer, and JOHN CORBETT, of Birmingham aforesaid, Pin Manufacturer, and WILLIAM HENRY PARKES, of Birmingham aforesaid, Metallic Pen Manufacturer, for an invention for—"A new or improved method of treating or coating steel pens and penholders to prevent the oxidation of the same, which method of treating or coating may also be applied to other articles of iron and steel." *Provisional protection only.*

LEES.
CLEGG.
19th December 1857.

3116. ASA LEES, of the Soho Iron Works, Greenacres Moor, near Oldham, in the County of Lancaster, Machine Maker, and JOHN CLEGG, of the same place, Foreman, for an invention for—"Certain improvements in looms for weaving." *Letters Patent sealed.*

HART.
JONES.
19th December 1857.

3117. THOMAS HART, Junior, of Blackburn, in the County of Lancaster, Cotton Spinner, and ABEL JONES, of the same place, Overlooker, for an invention for—"Improvements in looms called 'Dobby looms.'" *Letters Patent sealed.*

FURNIVAL.
19th December 1857.

3118. RICHARD FURNIVAL, of Manchester, in the County of Lancaster, Engineer, for an invention for—"Certain improvements in machinery or apparatus for cutting paper, card-board and other similar articles." *Letters Patent sealed.*

WALKER.
19th December 1857.

3119. WILLIAM WALKER, of Leeds, in the County of York, Maltster, for an invention for—"Improved apparatus for the purposes of heating and drying." *Letters Patent sealed.*

BROOMAN. 19th December 1857.

3120. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, Patent Agent, for an invention for—"Improvements in signalling in order to prevent collisions between trains upon railways."—*A communication from Jean Marie Joseph Degabriel.* *Provisional protection only.*

BROOMAN. 19th December 1857.

3121. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, E.C., Patent Agent, for an invention for—"Improvements in lime-kilns and in apparatuses employed for working the same."—*A communication from A. C. Simoneau.* *Letters Patent sealed.*

BARTLETT. 19th December 1857.

3122. JOHN BARTLETT, of the City of Bristol, Manufacturer, for an invention for—"An improvement in weighing-machines." *Provisional protection only.*

COLES. 19th December 1857.

3123. THOMAS COLES, of the City and County of Bristol, Mechanic, in the employment of Bartlett and Son, Agricultural Implement Makers, for an invention for—"An improvement in chaff cutters." *Provisional protection only.*

BOUGH. 19th December 1857.

3124. WILLIAM BOUGH, of No. 1, Jewin Crescent, Cripplegate, for an invention for—"Improvements in lamps and wicks for burning rosin and other oils and fluids, parts of which improvements are applicable to argand gas-burners." *Provisional protection only.*

MUSHET. 19th December 1857.

3125. ROBERT MUSHET, of Coleford, in the County of Gloucester, Metallurgist, for an invention for—"Improvements in the manufacture of iron." *Provisional protection only.*

NOSWORTHY. 21st December 1857.

3126. JOHN HEARN NOSWORTHY, of the City of London, Lithographer and Printer, for an invention for—"An improved apparatus for exhibiting cards, bills, and other like advertisements." *Provisional protection only.*

THRIFT. HIGH, 21st December 1857.

3127. WILLIAM THRIFT, and ADAM HIGH, of Stepney, in the County of Middlesex, for an invention for—"An improved self acting ship's watercloset." *Letters Patent sealed.*

HAMILTON. 21st December 1857.

3128. JAMES HAMILTON, of Liverpool, in the County of Lancaster, Shipwright, for an invention for—"Improvements in ship building."—*Provisional protection only.*

KENDALL. 21st December 1857.

3129. WILLIAM JOHN KENDALL, of the City of Norwich, for an invention for—"An improved safety signal for railways." *Provisional protection only.*

RENNIE. 21st December 1857.

3130. ROBERT RENNIE, of Netherwood, in the County of Dumbarton, North Britain, Contractor, for an invention for—"Improvements in self acting trap doors for mines." *Provisional protection only.*

TAYLOR. 21st December 1857.

3131. FRANCIS TAYLOR, of Romsey, in the County of Southampton, for an invention for—"Improvements in closets or privies." *Letters Patent sealed.*

BOUSFIELD. 21st December 1857.

3132. GEORGE TOMLINSON BOUSFIELD, of Loughborough Park, Brixton, in the County of Surrey, for an invention for—"Improvements in machinery used in the manufacture of springs, and in the application of springs to carriages."—*A communication.* *Letters Patent sealed.*

MYERS. 21st December 1857.

3133. WILLIAM HENRY MYERS, of 202, Whitechapel Road, in the Parish of St. Mary, Whitechapel, in the County of Middlesex, Printer, for an invention for—"An improved coffee pot made of metal or earthenware, to contain coffee and milk or cream separately, the same being used as a chocolate pot, the same invention being applicable to tea pots for the same purposes made either in metal or earthenware, the same invention being applicable to table urns, and the same invention being applicable to jugs made either in earthenware or glass or metal, to contain spirits and water or other liquids in different compartments." *Provisional protection only.*

TATLOW. HODGKINSON. 21st December 1857.

3134. JAMES TATLOW, of Wirksworth, in the County of Derby, Manufacturer, and HENRY HODGKINSON, of the same place, Engineer, for an invention for—"Improvements in railway breaks and in apparatuses for connecting shafts or rods for working breaks and signals." *Letters Patent sealed.*

BROOMAN. 21st December 1857.

3135. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, E.C., Patent Agent, for an invention for—"Improvements in breech-loading fire-arms—*A communication.*" *Provisional protection only.*

BASFORD.
21st December 1857.

3136. WILLIAM BASFORD, of No. 15, Lowther Cottages, Liverpool Road, Islington, in the County of Middlesex, Engineer, for an invention for—"Improvements in the manufacture of gas, and in retorts and other apparatus to be used therein."
Letters Patent sealed.

DE NORMANDY.
21st December 1857.

3137. ALPHONSE RENÉ LE MIRE DE NORMANDY, of Judd Street, Brunswick Square, in the County of Middlesex, Analytical Chemist, for an invention for—"Improvements in apparatus used for distilling sea water on board ships and vessels."
Letters Patent sealed.

STURGES.
21st December 1857.

3138. RICHARD FORD STURGES, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"A new or improved manufacture of rollers or cylinders for printing fabrics." *Letters Patent sealed.*

KENNARD.
22nd December 1857.

3139. ARTHUR CHALLIS KENNARD, of the Falkirk Iron Works, in the County of Stirling, North Britain, for an invention for—"Improvements in trussed iron bridges."—*A communication.* *Letters Patent sealed.*

RODGETT.
RODGETT.
22nd December 1857.

3140. SAMUEL RODGETT, and DANIEL RODGETT, both of Blackburn, in the County of Lancaster, Blacksmiths, for an invention for—"An improved method of coupling and uncoupling railway, tramway, and other carriages, waggons, lorries, trucks, and other vehicles." *Letters Patent sealed.*

JOHNSON.
22nd December 1857.

3141. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of 166, Buchanan Street, in the City of Glasgow, North Britain, Gentleman, for an invention for—"An improved signal apparatus to be attached to common road carriages."—*A communication from Louis François Clement Bréguet, of Paris, in the Empire of France, Clock Maker.* *Provisional protection only.*

LANDOU.
22nd December 1857.

3142. MORRIS LANDOU, of 25, Pudding Lane, in the City of London, Cigar Manufacturer, for an invention for—"Improvements in cooking-utensils."
Letters Patent sealed.

GREENHALGH.
HUTCHINSON.
22nd December 1857.

3143. ORLANDO GREENHALGH, of Horwich, in the County of Lancaster, Manager, and ROBERT HUTCHINSON, of the same place, Mechanic, for an invention for—"Improvements in apparatus for stirring and mixing colours for calico printing and other purposes." *Provisional protection only.*

MAW.
22nd December 1857.

3144. EDWIN MAW, of the Doncaster Iron Works, Yorkshire, for an invention for—"Improvements in ornamenting and strengthening metal tubes and rods with wood, applicable in the manufacture of bedsteads and other articles of furniture and framings, and also in the manufacture of the joints or connections of the posts and framings of bedsteads and other articles of furniture and frames."
Letters Patent sealed.

BRIDGE.
HAMER.
22nd December 1857.

3145. GEORGE BRIDGE, of Bollington, near Macclesfield, in the County of Chester, Manager, and JOB HAMER, of Longsight, near Manchester, in the County of Lancaster, Mercantile Clerk, for an invention for—"A new process or manufacture for converting woven silken fabrics or silk waste into a fibrous material fit for being spun into yarn or thread, or for being mixed with silk, woollen, cotton or any other material to be spun into yarn or thread, and of improvements in machinery to be employed in such process or manufacture." *Letters Patent sealed.*

CROSSLEY.
23rd December 1857.

3146. DANIEL JONES CROSSLEY, of Hebden Bridge, in the County of York, Manufacturer, for an invention for—"Improvements in the manufacture of certain textile fabrics called 'Pellones' and used for saddle covers, and in the machinery or apparatus employed therein, which improvements are also applicable for weaving other fabrics." *Letters Patent sealed.*

LANDI.
FALCONIERI.
23rd December 1857.

3147. THOMAS LANDI, of 16, Rue de Boulevard Batignolles, in Paris, and CHARLES FALCONIERI, a Civil Engineer, of 20, Charles Street, Middlesex Hospital, in London, both native of Sicily, for an invention for—"Improvements for laying subaqueous electrical cables for telegraphic communications." *Letters Patent sealed.*

NUNN.
23rd December 1857.

3148. WILLIAM NUNN, of Hackney, in the County of Middlesex, Gentleman, for an invention for—"Improvements in stereoscopic apparatus." *Letters Patent sealed.*

NIXON.
23rd December 1857.

3149. CHRISTOPHER NUGENT NIXON, of Ramsgate, in the County of Kent, Gentleman, for an invention for—"Improvements in attaching, fitting and securing the rudders of ships, barges, boats, and every other description of sailing or steam vessel." *Letters Patent sealed.*

KYNASTON. 23rd December 1857.

3150. AUGUSTUS FREDERICK KYNASTON, residing at Plymouth, in the County of Devon, a Post Captain in the Royal Navy, Companion of the Bath, and Knight of the Legion of Honor, for an invention for—"An improved slip or disengaging hook." *Letters Patent sealed.*

MOSS. GAMBLE. GAMBLE. 23rd December 1857.

3151. JOSHUA MOSS, THOMAS GAMBLE, and JOSEPH GAMBLE, all of Sheffield, in the County of York, Steel Manufacturers, for an invention for—"An improvement in the manufacture of cast steel hoops and cylinders." *Letters Patent sealed.*

MURRAY. 23rd December 1857.

3152. JOHN MURRAY, of Whitehall Place, in the County of Middlesex, Gentleman, for an invention for—"Improvements in propelling ships and vessels."—*A communication.* *Provisional protection only.*

NORTON. 23rd December 1857.

3153. CHARLES NORTON, 3, Lancaster Place, Camden Street, Camden Town, for an invention for—"Carriage door shields to prevent accidents arising from the shutting of railway or other carriage doors, also applicable for nursery doors or any other doors where children may have access or where safety from accident may be an object." *Provisional protection only.*

WILLIAMSON. 23rd December 1857.

3154. ALEXANDER WILLIAM WILLIAMSON, of 16, Provost Road, Haverstock Hill, in the County of Middlesex, for an invention for—"Improvements in treating scammony root and commercial scammony to obtain the active principle therefrom." *Letters Patent sealed.*

WHITE. 24th December 1857.

3155. GEORGE WHITE, of 5, Laurence Pountney Lane, Cannon Street, in the City of London, for an invention for—"A semeio-melodion or instrument for demonstrating musical writing."—*A communication from Mr. Armin Früh, of Vienna, (Austria).* *Provisional protection only.*

REEVES. 24th December 1857.

3156. CHARLES REEVES, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"Improvements in repeating or revolving fire-arms." *Letters Patent sealed.*

ADDERLEY. 24th December 1857.

3157. SAMUEL HENRY ADDERLEY, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"Improvements in the manufacture and ornamentation of pencil cases, pen holders, reserves or cases for leads, needle cases, and ink holders, and other tubular cases." *Provisional protection only.*

PLAYLE. 24th December 1857.

3158. THOMAS PLAYLE, of Chatham, in the County of Kent, Coach Builder, for an invention for—"Improvements in two-wheeled carriages." *Provisional protection only*

CROFT. STEELE. 24th December 1857.

3159. GEORGE CROFT, of Leeas Street, Keighley, in the County of York, Mechanic and Smith, DAVID STEELE, of Greengate Mills, in the Parish of Keighley, in the said County of York, Manager, for an invention for—"Improvements in machinery or apparatus for combing and preparing wool and other fibrous substances." *Letters Patent sealed.*

HART. 24th December 1857.

3160. GEORGE WILLIAM HART, of 5, Osborne Terrace, Southsea, in the Parish of Portsea, in the County of Southampton, Accountant, for an invention for—"Improvements in the construction of locks and in apparatus for cutting keys." *Letters Patent sealed.*

BURLEY. 24th December 1857.

3161. GEORGE BURLEY, of King Cross Road, near Halifax, in the County of York, Mechanic, for an invention for—"Improvements in apparatus for cutting the pile of fustians and other pile fabrics." *Letters Patent sealed.*

WILSON. GREEN. 24th December 1857.

3162. HENRY CHARLES FENWICK WILSON, and THOMAS GREEN, both of Dunston, in the County of Durham, for an invention for—"A machine or apparatus for making rivets." *Provisional protection only.*

WILSON. GREEN. 24th December 1857.

3163. HENRY CHARLES FENWICK WILSON, and THOMAS GREEN, both of Dunston, in the County of Durham, for an invention for—"Improved machinery or apparatus for making rivets." *Letters Patent sealed.*

BURLEIGH. DANCHELL. 24th December 1857.

3164. BENJAMIN BURLEIGH, of 26, Great George Street, Westminster, and FREDERICK LUDWIG DANCHELL, of No. 452, Oxford Street, in the County of Middlesex, for an invention for—"Certain improvements in the manufacture of vessels, plates, or utensils used for domestic, sanitory, electric, and manufacturing purposes." *Letters Patent sealed.*

CHAPLIN. 26th December 1857.

3165. ALEXANDER CHAPLIN, of Glasgow, in the County of Lanark, North Britain, Engineer, for an invention for—"Improvements in steam-engines and in the combustion of fuel." *Letters Patent sealed.*

SARAIVA. 26th December 1857.

3166. ANTONIO RIBERIO SARAIVA, of Portugal, but now of Nottingham Street, Marylebone, Gentleman, for an invention for—"An improved candlestick or holder." *Provisional protection only.*

PARSONS. 26th December 1857.

3167. CHARLES FREDERICK PARSONS, of No. 1, Duke Street, Long Alley, Finsbury, in the County of Middlesex, Engineer, for an invention for—"Cleansing and reburning animal charcoal." *Provisional protection only.*

BRUCE. 28th December 1857.

3168. ALEXANDER BRUCE, of the City of Manchester, in the County of Lancaster, Watch Maker, for an invention for—"Improvements in watches and time-pieces." *Letters Patent sealed.*

BARLING. 28th December 1857.

3169. JOHN BARLING, of Halifax, in the County of York, for an invention for—"An improved paddle for propulsion in water." *Letters Patent sealed.*

JOHNSON. 28th December 1857.

3170. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of 166, Buchanan Street, in the City of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in the treatment and preservation of skins, furs, wool, and textile fabrics, and in the machinery or apparatus employed therein."—*A communication from Madame Marie Louise Prost, Widow.* *Letters Patent sealed.*

DEACON. 28th December 1857

3171. HENRY DEACON, of Widnes, in the County of Lancaster, Alkali Manufacturer, for an invention for—"Improvements in purifying alkaline lees." *Letters Patent sealed; no specification filed.*

BOYDELL. 28th December 1857.

3172. JAMES BOYDELL, of 65, Gloucester Crescent, Camden Town, for an invention for—"Improvements in carriages propelled by steam or other power." *Letters Patent sealed.*

WADSWORTH. 28th December 1857.

3173. JAMES WADSWORTH, of Hazelgrove, near Stockport, in the County of Chester, Machine Maker, for an invention for—"Improvements in the production and management of artificial light and in apparatus applicable thereto." *Letters Patent sealed.*

DESMOUTIS. 28th December 1857.

3174. HENRY DESMOUTIS, of Paris, in the Empire of France, Manufacturer, for an invention for—"New metallic alloys." *Letters Patent sealed.*

COTTRILL. 28th December 1857.

3175. JAMES COTTRILL, of Studley, in the County of Warwick, Needle Manufacturer, for an invention for—"Improvements in the manufacture of certain descriptions of needles." *Complete specification; Letters Patent sealed.*

GRIFFITHS. 28th December 1857.

3176. JOHN THOMAS GRIFFITHS, of New Basford, in the County of Nottingham, Lace Manufacturer, for an invention for—"Improvements in the manufacture and ornamenting of lace." *Letters Patent sealed.*

HOLDEN. 28th December 1857.

3177. ISAAC HOLDEN, of St. Denis, near Paris, in the Empire of France, for an invention for—"Improvements in preparing and combing wool and other fibres." *Letters Patent sealed.*

SPENCER. 29th December 1857.

3178. THOMAS SPENCER, Analytical and Consulting Chemist, of No. 21, Southampton Place, or as recently designated No. 192, Euston Road, London, for an invention for—"Improvements in the purification of illuminating or lighting gas." *Letters Patent sealed.*

THOMSON. 29th December 1857.

3179. HENRY THOMSON, of Liverpool, in the County of Lancaster, Manufacturing Chemist, for an invention for—"Improvements in the application or use of a certain substance as a substitute for glue, paste, cement, varnish, and other similar compounds." *Provisional protection only.*

HARGREAVES. HARGREAVES. 29th December 1857.

3180. JOHN HARGREAVES, and JOSEPH HARGREAVES, of Liverpool, in the County of Lancaster, Watch Manufacturers, for an invention for—"Improvements in winding up watches which have not fusees or chains." *Provisional protection only.*

PARKES. 29th December 1857.

3181. ALEXANDER PARKES, of Birmingham, for an invention for—"Improvements in joining or uniting metals." *Letters Patent sealed.*

MOUROT.
29th December 1857.

3182. VICTOR MOUROT, of No. 43, Rue de Paradis Poissonnière, Paris, Merchant, for an invention for—"Improvements in furnaces for heating kilns and ovens used in the manufacture of pottery and earthenware, part of which improvements are also applicable to furnaces generally." *Letters Patent sealed.*

GOMEZ.
MILLS.
29th December 1857.

3183. EDWIN GOMEZ, and WILLIAM MILLS, of the City and State of New York, United States of America, for an invention for—"An improved composition for trains or safety fuses and similar purposes." *Letters Patent sealed.*

BLAKE.
KAY.
30th December 1857.

3184. JOHN BLAKE, of Accrington, in the County of Lancaster, Mechanic, and RICHARD DUGDALE KAY, of the same place, Manufacturer of Patent Fabrics, for an invention for—"An improved apparatus for reducing and regulating the quantity, force, or pressure of steam." *Letters Patent sealed.*

WARD.
30th December 1857.

3185. FREDERICK OLDFIELD WARD, of 12, Cork Street, Burlington Gardens, London, for an invention for—"Improvements in liberating or producing potash or soda or both (as the case may be) from natural alcaliferous silicates, the residuum of the process being available as a material for manure, puzzolano, or hydraulic cement." —*Partly a communication from Frederick Wynants, a Belgian, residing in Brussels.* *Letters Patent sealed.*

TOOTH.
30th December 1857.

3186. WILLIAM HENRY TOOTH, of 9, Sumner Street, Southwark, in the County of Surrey, Engineer and Iron Founder, for an invention for—"Improvements in furnaces." *Provisional protection only.*

PALLING.
30th December 1857.

3187. FRANCIS PALLING, of 134, Princes Road, in the County of Surrey, Clerk, for an invention for—"The construction of candles, lamps, and candle lamps, without wicks." *Letters Patent sealed.*

BOOTH.
30th December 1857.

3188. TEMPEST BOOTH, of Manchester, in the County of Lancaster, Gum and Starch Manufacturer, for an invention for—"Improvements in the treatment of certain vegetable matters, and in the application of the same to sizeing, stiffening, dressing, and finishing textile materials, and which is also applicable to thickening colours for printing." *Letters Patent sealed.*

MORRISON.
30th December 1857.

3189. JAMES DARSIE MORRISON, of Edinburgh, in the County of Midlothian, North Britain, Dentist, for an invention for—"Improvements in effecting surgical and medical operations by the agency of artificially induced anæsthesia." *Letters Patent sealed.*

O'NEILL.
30th December 1857.

3190. JOHN O'NEILL, of Liverpool, in the County of Lancaster, Billiard and Bagatelle Maker, for an invention for—"Improvements in apparatus for communicating betwixt the guard or passengers and the engine driver or railway trains." *Letters Patent sealed.*

NEWTON.
30th December 1857.

3191. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"Improved machinery for cutting corks and bungs."—*A communication.* *Letters Patent sealed.*

CLINTON.
30th December 1857.

3192. JOHN CLINTON, of 35, Percy Street, in the County of Middlesex, for an invention for—"Improvements in the manufacture of wind musical instruments played by the mouth, and in mandrils used in such manufacture." *Letters Patent sealed.*

HARMER.
30th December 1857.

3193. RICHARD HARMER, of Union Street, Spitalfields, in the County of Middlesex, Clerk, for an invention for—"Improvements in cigarettes." *Letters Patent sealed.*

BUHRING.
31st December 1857.

3194. CARL BUHRING, of No. 9, Pratt Street, Camden Town, in the County of Middlesex, Gentleman, for an invention for—"Improvements in the combination of carbonized and carbonizable with other materials, and the manufacture of such compounds into various useful articles." *Letters Patent sealed.*

HANSON.
31st December 1857.

3195. HENRY HANSON, of Stockport, in the County of Chester, Rope, Twine, Cotton Band, &c., Manufacturer, for an invention for—"Improvements in the manufacture and finish of cotton band, twine, rope, cordage and other fibrous substances, and in machinery or apparatus employed therein." *Letters Patent sealed.*

BARLOW. 31st December 1857.	3196. PETER WILLIAM BARLOW, of 26, Great George Street, Westminster, for an invention for—"Improvements in the permanent way of railways." *Letters Patent sealed; no specification filed.*
RAMAR. 31st December 1857.	3197. AUGUSTIN JULIEN MICHEL RAMAR, of 49, Broad Street, Golden Square, for an invention for—"Improvements in ornamental and portable fountains." *Letters Patent sealed; specification filed by order.*
WILSON. 31st December 1857.	3198. GEORGE WILSON, of Sheffield, in the County of York, Steel Manufacturer, for an invention for—"Improvements in the furnaces or fireplaces of steam-boilers." —*A communication.* *Letters Patent sealed.*
MIDDLESHIP. 31st December 1857.	3199. WILLIAM MIDDLESHIP, of Grove Terrace, South Grove, Mile End, in the County of Middlesex, Officer of Her Majesty's Customs, for an invention for—"Improved machinery or apparatus for obtaining motive power." *Provisional protection only.*
LONG. 31st December 1857.	3200. JAMES LONG, of Gorleston, Yarmouth, in the County of Norfolk, for an invention for—"Improvements in the construction of sewers and in the means of discharging the contents thereof." *Letters Patent sealed.*

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